JVC®

HD-ILA™ Powered by D-ILA

Projection Television Users Guide

For Model:
HD-58S998
HD-65S998

Illustration of HD-58S998 and RM-C1400

Important Note:

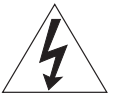
In the spaces below, enter the model and serial number of your television (located at the rear of the television cabinet). Staple your sales receipt or invoice to the inside cover of this guide. Keep this user's guide in a convenient place for future reference. Keep the carton and original packaging for future use.

Model Number: _____

Serial Number: _____

LCT2172-001C-A
0307TNH-II-IM

Important Safety Precautions



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: To reduce the risk of electric shock. Do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

CAUTION: TO INSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

1. Operate only from the power source specified on the unit.
2. Avoid damaging the AC plug and power cord.
3. Avoid Improper installation and never position the unit where good ventilation is unattainable.
4. Do not allow objects or liquid into the cabinet openings.
5. In the event of trouble, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

Changes or modifications not approved by JVC could void the warranty.

* When you don’t use this TV set for a long period of time, be sure to disconnect both the power plug from the AC outlet and antenna for your safety.
* To prevent electric shock do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

NOTICE (for USA)

This product has a High Intensity Discharge (HID) lamp that contains mercury. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information, please contact your local authorities or for USA, the Electronic Industries Alliance: http://www.eiae.org

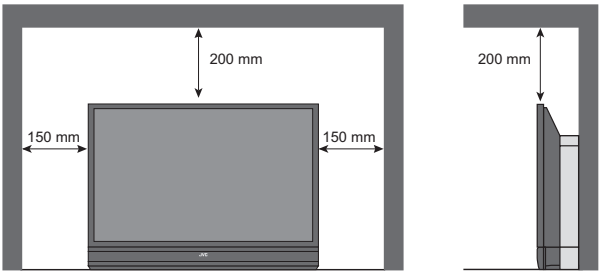
- As an “ENERGY STAR®” partner, JVC has determined that this product or product model meets the “ENERGY STAR®” guidelines for energy efficiency.

IMPORTANT SAFETY INSTRUCTIONS

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15) Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

16) Avoid improper installation and never position the unit where good ventilation is impossible. When installing this TV, distance recommendations must be maintained between the set and the wall, as well as inside a tightly enclosed area or piece of furniture. Keep to the minimum distance guidelines shown for safe operation.



17) Cautions for installation

— Do not tilt the TV towards the left or right, or towards the back.
— Install the TV in a corner on the floor so as to keep cords out of the way.
— The TV will generate a slight amount of heat during operation. Ensure that sufficient space is available around the TV to allow satisfactory cooling.

18) Make enough room for inserting and removing the power plug. Place the TV as close to the outlet as possible. The main power supply for this TV is controlled by inserting or removing the power plug.

19) Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

20) When this TV is connected to the wall outlet, it is always on standby even when all the LED lamps are not lit. To shut down the TV, unplug the TV from the wall outlet.

FCC Notice:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

Caution - Make sure to use the specific JVC optional TV stand or wall mounting kit. Use with other stands or wall mounting kit are capable of causing instability which may lead to serious injury.

		HD-58S998	HD-65S998
TV Stand	RK-CSLM8	**YES**	**NO**
	RK-CSLL8	**YES**	**YES**
Wall Mount	TS-CP01WG	**YES**	**NO**
	TS-CP02WG	**NO**	**YES**

Warnings

We have an important note for customers who subscribe to basic cable services (do not have a separate cable box) and plan to use their JVC TV remote control to select channels.

Once you run the Auto Tuner Setup (which detects and programs all the channels your TV is receiving through the RF input), every channel number available from your cable company will appear in your television's Channel Summary and they will all be marked as available for scanning. Even though every channel is detected and appears as available, you will only be able to view those that you specifically subscribe to from your cable company. This will likely mean there are blank channels between those channels you wish to scan or "surf".

We apologize for any inconvenience this may cause but it is important to note that this is not a malfunction of your television. If you want to sequentially scan those channels you subscribe to without blank ones in between, you can contact your cable company for their cable box and remote.

Caring for the Cabinet

Normally, light dusting with a soft, non-scratching duster will keep your TV clean.

If you wish to wipe down the television, first unplug it. Then wipe gently with a soft cloth, slightly moistened with water. You can add a few drops of mild liquid detergent to the water to help remove spots of oily dirt.

- DO NOT allow liquid to enter the TV through the ventilation slots.
- DO NOT use strong or abrasive cleaners on the TV.
- DO NOT spray liquids or cleaners directly on the TV's surface.
- DO NOT rub or scrub the TV harshly. Wipe the set gently with a soft cloth.

Caring for the Screen

The screen is treated with an electrostatic-proof coating. When it gets dirty, wipe it gently with a soft cloth. If the screen is very dirty, wipe it down with a cloth dipped in a diluted kitchen cleaner and thoroughly wrung-out. Then wipe immediately after with a clean, dry cloth.

Do not apply alcohol, organic solvents (like acetone), acidic or alkaline cleansers to the screen. These will remove the coating layer and cause discolorations.

Do not push or hit the screen. This could cause scratches on the screen surface and image distortions.

Warnings

Thank you for purchasing a JVC HDTV-ready projection television which uses the high-quality HD-ILA projection system. This is one of the highest quality and most technologically advanced televisions available today. It is recommended that you read this instruction manual before using your television in order to learn about it's many features. Cautions related to the safe use of the device and important information which will help you to be able to use this device for a long time is in the Appendix. Once again, thank you for purchasing this television and please enjoy using it.

In order to use the television for a long time

This television uses a lamp to project the picture onto the screen. Before using this television, please read the safety cautions and information about this television which are summarized below.

1. When the power is turned on, the warming up commences

This television uses a lamp to project the picture onto the screen. Once the lamp has warmed up, you can enjoy the pictures at their full brightness. What happens when the power is turned on is explained below. Immediately after the power is turned on, since the lamp has not had time to warm up, the picture is displayed only dimly on the screen. As the lamp warms up, the picture becomes brighter. It takes approximately one minute for the lamp to warm up to it's normal operating temperature. There are 2 LED indicators on the front panel of the television that can be used as a guide. When the POWER button is pressed, the LAMP LED indicator blinks in orange for approximately 1 minute at approximately every 2 seconds, and then goes out.

Note: It is impossible to turn the power off during this period. After 1 or more minutes have passed, you can turn off the power.

2. Cooling the inside of the television and the lamp

Cooling is also performed while the television is being shut down.
When the POWER button is pressed to turn off the power, the following operations are performed. When the television is turned off, the screen transitions to dark like a curtain from top to bottom. Then, cooling is performed for approximately 40 seconds. When the cooling is being performed, the LAMP LED indicator on the front panel blinks in orange at approximately every 3 seconds. **The television can not be operated while the cooling is being performed.** After the cooling has been performed for 40 seconds, the power is turned off. **Do not remove the electrical plug until after the cooling process has completed.** If the electrical plug is removed before the cooling process has completed, the internal circuits and lamp may overheat leading to the life of the lamp being shortened and the possibility of malfunctions.

Do not block the ventilation holes.
Do not block the ventilation holes while the power is turned on. Do not block the air intake holes behind the speaker grills.

3. The lamp is a consumable item

Replace the lamp when it has blown or when the picture becomes dark. The lamp is a user replaceable item. The lamp must be recycled. For a detailed explanation on how to recycle the lamp, refer to the Appendix and the instructions that are included with the replacement lamp kit. The life of the lamp changes depending on the atmospheric temperature and altitude in which the TV is being used.

Warnings

4. The television requires a lot of electrical power

It is recommended that the television is connected directly to the wall socket, and not to another device. When connecting the television to a wall socket that is being used by another device, or when using an extension cord, be careful not to exceed the electrical capacity of the socket.

Do not turn the power on and off repeatedly in a short amount of time.
It subjects the television and the lamp to stress and may lead to malfunctions and the life of the lamp being shortened.

5. The screen is made of plastic

Handle the screen very carefully as it can scratch easily. Do not rub, hit or press on it with any hard objects. When the screen is dirty, gently wipe it with a soft cloth. Refer to the Appendix for details on how to clean the screen.

6. Caution! Warm air from the air ducts

This unit has an air duct for cooling. The duct will blow warm air while the television is operating. When placing the television, make sure not to locate it too close to wallpaper. The warm air could cause the color of the wallpaper to change. Also, take care to keep children and pets away from the warm air ducts. Long exposure to the warm air from the ducts could cause a minor burn.

7. Caution! Moving this television

When lifting this television, Do not hold by the screen. Holding the screen could cause it to detach, causing the television to fall.

8. Do not replace the lamp immediately after use

The lamp becomes extremely hot during use. If the lamp is touched immediately after use before it has a chance to cool down, there is a danger of burns. Be careful when handling the lamp.

9. Do not touch the lamp glass

If the lamp is used when there is dirt from fingers on the lamp glass, there is a possibility of the lamp breaking. Be careful not to touch the lamp glass.

10. ILA element characteristics

Do not project still pictures or pictures that have still segments for a long period of time. The still parts of the picture may remain on the screen. This is a characteristic of ILA elements and not a malfunction. The picture will disappear over time.

11. Condensation

When a heater is turned on or the television is moved from a cold place to a hot place, droplets of water may form on the lamp and screen. This is called condensation. If the television is used while this condensation is still present, the picture may seem distorted, and the inside of the screen may become dirty. In this case, wait until the condensation has gone before using the television.

12. Do not open the cabinet of this television

This television has a HDMI terminal. Opening up the cabinet will violate the copyright of the program or software shown on the television. Please do not open the cabinet.

13. Usable Time

Do not keep the TV on for more than 24 hours consecutively. There is a possibility of the life of the lamp being shortened.

Warnings

Attaching or removing the pedestals

The TV comes with front and rear pedestal (included). If you choose to mount the TV to a wall or utilize JVC optional (sold separately) specific TV stand or wall mounting kit, you will not need the pedestal, but should keep it for future use.

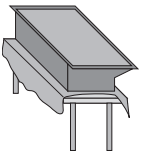
Make sure to use the specific JVC optional TV stand or wall mounting kit. Use with other stands or wall mounting kit are capable of causing instability which may lead to serious injury.

		HD-58S998	HD-65S998
TV Stand	RK-CSLM8	**YES**	**NO**
	RK-CSLL8	**YES**	**YES**
Wall Mount	TS-CP01WG	**YES**	**NO**
	TS-CP02WG	**NO**	**YES**

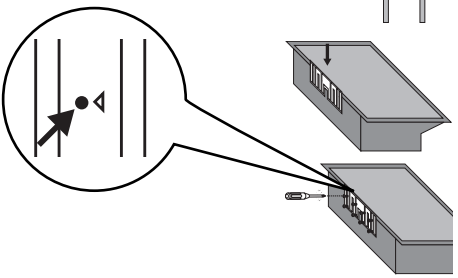
If you do not utilize the TV stand, the front and rear pedestal **MUST** be attached to prevent injury. If the TV sits flush against the wall, only the front pedestal **MUST** be attached.

To attach the front and rear pedestal

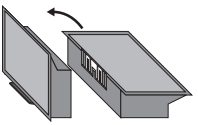
1) Clear a flat, soft area on which to lay the TV on it's back. Two people can gently lay back the TV. **Please use extra care as any shock or impact may damage the TV**. (Do not lay it on it's front to avoid damaging the screen.)



2) Remove the front pedestal from its box and place it over the screw holes on the bottom of the TV. All the holes should match up perfectly. Tighten 8 Phillips type screws (included) into the holes marked.



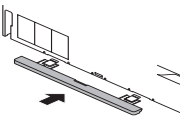
3) Gently return the TV to an upright position. Please attach the rear pedestal after you attach the front pedestal. If you attach the rear pedestal first, you may break the pedestal when you attach the front pedestal.



Note:

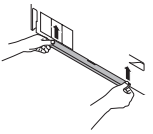
- If the TV sits flush against the wall, you do not need to attach the rear pedestal.

4) Remove rear pedestal from it's box and slide the rear pedestal as shown, under the TV and into the proper position.

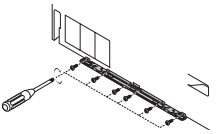


Warnings

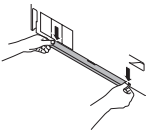
5) Remove the cover on the rear pedestal towards the upper part.



6) Tighten 6 Phillips type screws (included) into the holes.

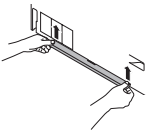


7) Attach the cover again.

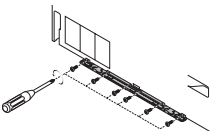


To remove the front and rear pedestal

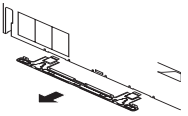
1) Remove the cover on the rear pedestal towards the upper part.



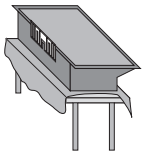
2) Loosen 6 Phillips type screws.



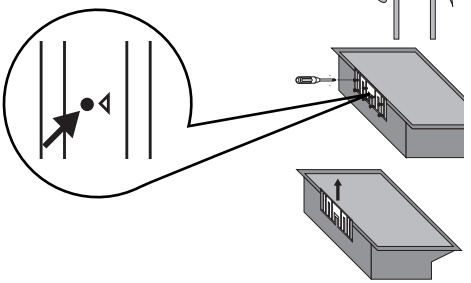
3) Slide out the rear pedestal as shown, under the TV.



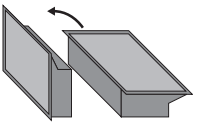
4) Clear a flat, soft area on which to lay the TV on it's back. Two people can gently lay back the TV. **Please use extra care as any shock or impact may damage the TV**. (Do not lay it on it's front to avoid damaging the screen.)



5) Loosen 8 Phillips type screws. Then, remove the front pedestal from the bottom of the TV.



6) Gently return the TV to an upright position.



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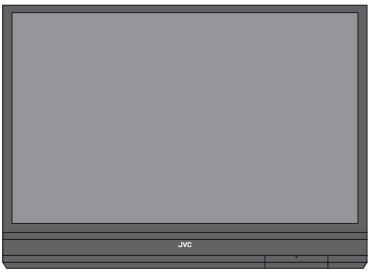
Unpacking your TV

Thank you for your purchase of a JVC Color Television. Before you begin setting up your new television, please check to make sure you have all of the following items. In addition to this guide, your television box should include:

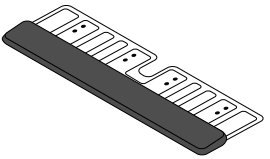
Television x 1



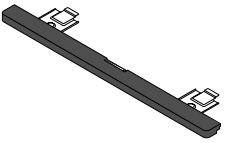
Remote Control x 1

AA Batteries x 2

Note: Your television and/or remote control may differ from the examples illustrated here.



Front Pedestal x 1



Rear Pedestal x 1

Philips type screws x 14

Warning:

- If you choose to mount the TV to a wall or utilize JVC optional (sold separately) specific TV stand or wall mounting kit, you will not need the pedestal, but should keep it for future use. As for a specific TV stand or wall mounting kit, see page 4.
- If you do not utilize the TV stand, the front and rear pedestal **MUST** be attached to prevent injury.
- If the TV sits flush against the wall, only the front pedestal **MUST** be attached.

We recommend that before you start using your new television, you read this entire User's Guide so you can learn about your new television's many great features. If you're anxious to start using your television right away, a quick setup guide follows on the next few pages.

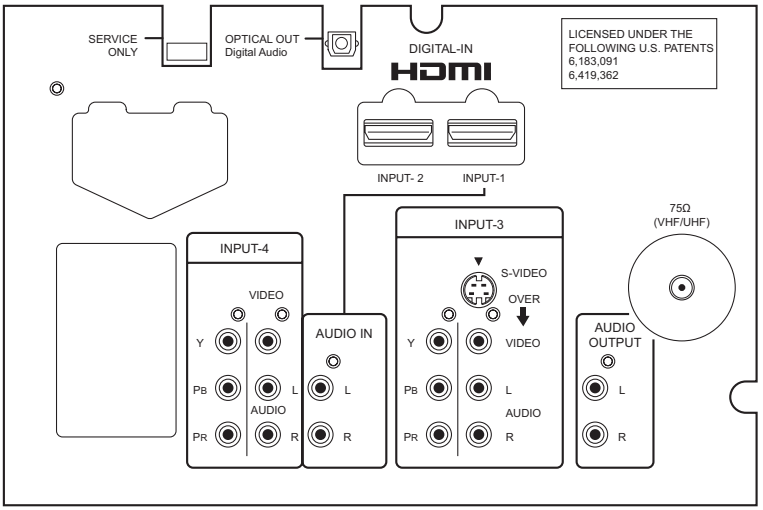
Quick Setup

TV Model

Before you connect your television to another device, please refer to the proper diagrams for your specific TV and remote. These will help assist you in understanding how to connect your television to another device, as well as use the remote to set up your television.

Side Panel Diagram

Facing the front of the TV, these terminals are located behind the door on the right side. To open the door, place your finger in the slot, and pull it forward.

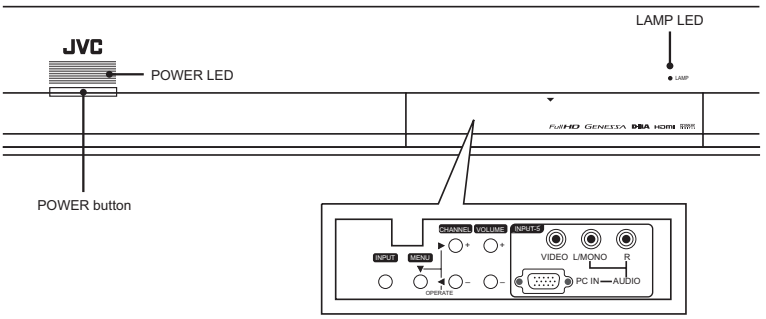


Note:

- The terminal labeled "SERVICE ONLY", is exclusively used to update the software version.

Front Panel Diagram

This terminal is located under the front panel door. To access, push the ▼ arrow on the door to open.



Remote Control

RM-C1400

- For information on remote control buttons, see pages 60 - 70.
- SUB CHANNEL and GUIDE buttons are for digital channels. If your TV is connected to an ATSC antenna or Digital Cable, you can use these buttons.
- This remote control is capable of operating many external device brands. See page 71 - 76 for how to program the remote control.

Quick Setup

Getting Started

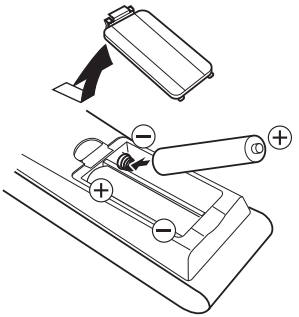
These quick setup pages will provide you, in three easy steps, with the basic information you need to begin using your new television right away. If you have questions, or for more detailed information on any of these steps, please consult other sections of this manual.

Step 1 – The Remote Control

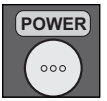
Before you can operate your remote control, you first need to install the batteries (included).

Raise the latch on the remote's back cover to remove. Insert two batteries, carefully noting the "+" and "–" markings. Place the "–" end in the unit first. Snap the cover back into place.

When you change the batteries, try to complete the task within three minutes. If you take longer than three minutes, the remote control codes (ex. VCR, DVD) may have to be reset. See pages 71 - 76.



Basic Operation



Turn the television on and off by pressing the POWER button at the top right corner of the remote. If this is the first time you are turning on the TV, the interactive plug-in menu appears.

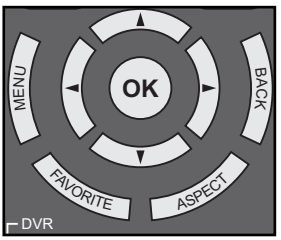
- At first, to watch your TV, select the TV mode by pressing the MODE button on the remote control before you turn the TV power on. See page 61.
- See page 60 to 70 for details regarding the remote control buttons.

Note:

- If the lamp replacement message appears when you turn the television ON, see page 78.

Using Menu Buttons

To use the menu functions, press the MENU button. Next, select a menu using the four arrow keys. The four arrow keys are used only for menu selections.



Step 2 – Connecting Your Devices

To make these connections, you will use plugs like the ones illustrated below.

Coaxial Cables

Used to connect an external antenna or cable TV system to your TV.

Component Cables Composite Cables Audio Cables

Used to connect audio/ video devices like VCRs, DVD players, stereo amplifiers, game consoles, etc.

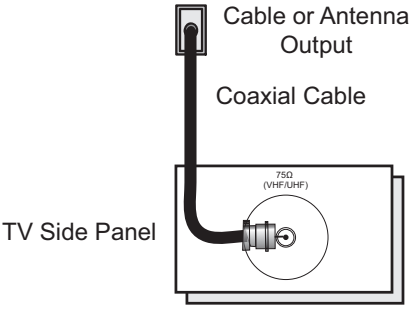
S-Video Cable

Used to make video connections with S-Video VCRs, Camcorders and DVD players.

Notes:

- The following connection diagrams are examples.
- After you are finished connecting your devices, plug the power cord into the nearest power outlet and turn on the TV.
- If you follow these diagrams and the television does not work properly, contact your local cable operator.
- To connect a DVD player, see VCR Connection.
- If you have a satellite television system, refer to the satellite TV manual.

No VCR Connection

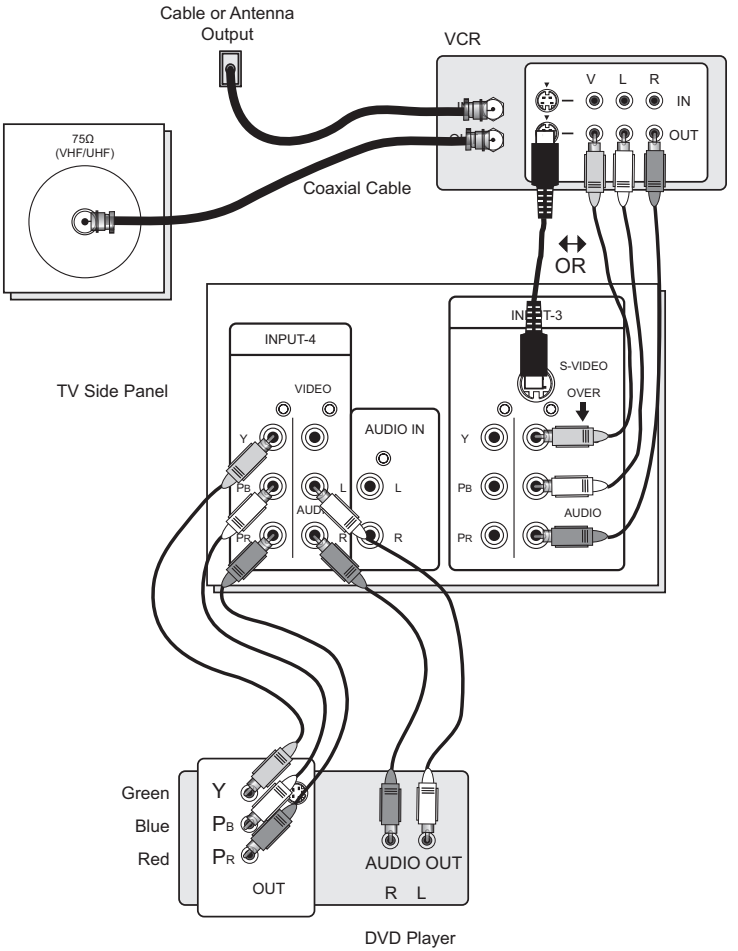


VCR Connection

Notes:

- Green, blue and red are the most common colors for DVD cables. Some models may vary colors. Please consult the user's manual for your DVD player for more information.
- Be careful not to confuse the red DVD cable with the red audio cable. It is best to complete one set of connections (DVD or audio output) before starting the other to avoid accidentally switching the cables.
- You may also connect the DVD player to Input 3.

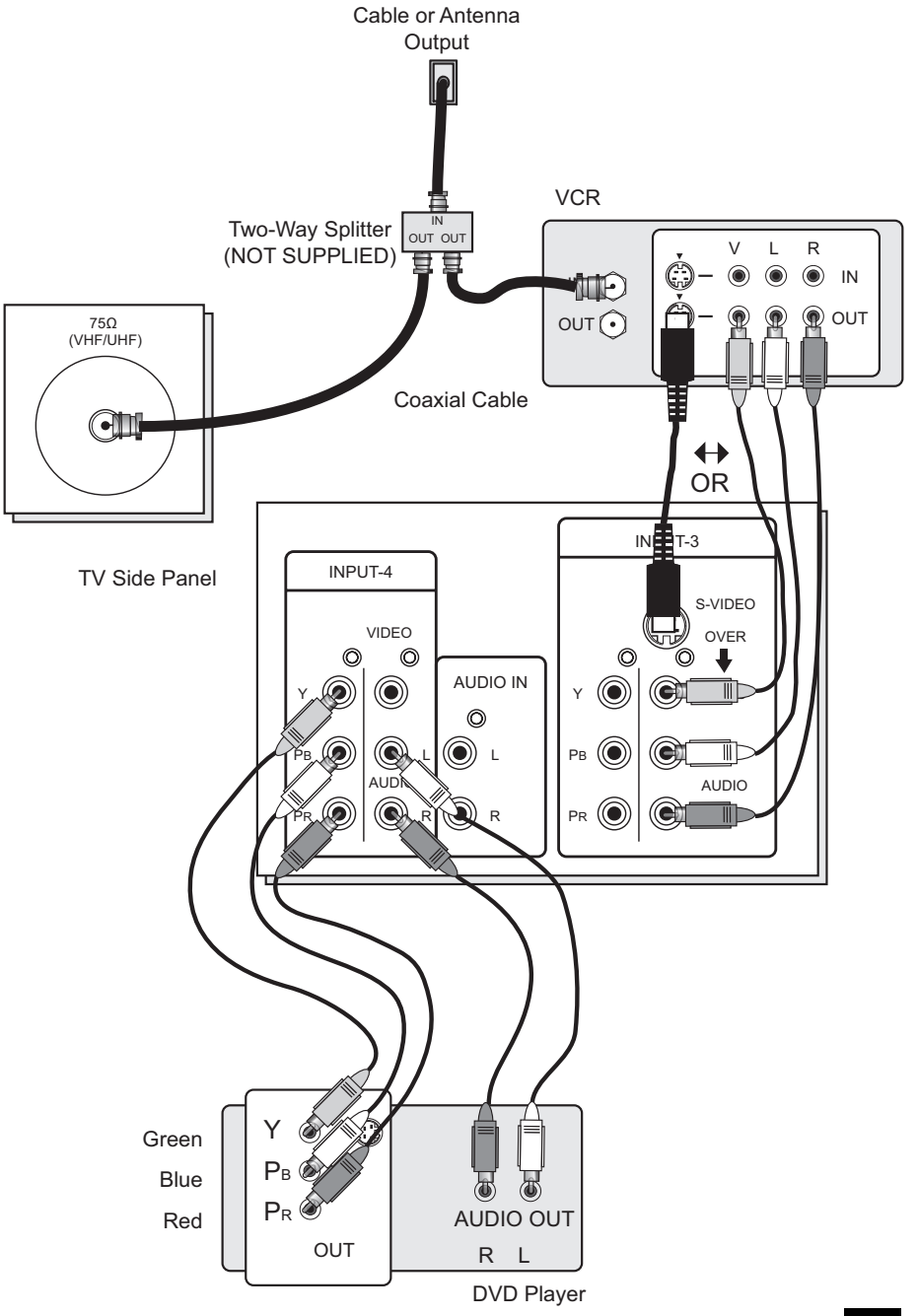
Diagram #1



Note:

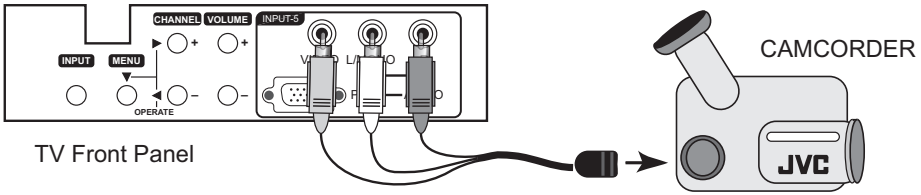
- If this connection setup does not work for you, try the connection setup on page 17.

Diagram #2


Cable or Antenna
Output
VCR
Two-Way Splitter
(NOT SUPPLIED)
IN
OUT OUT
V L R
IN
OUT
OUT
75Ω
(VHF/UHF)
Coaxial Cable
OR
TV Side Panel
INPUT-4
VIDEO
Y
PB
PR
AUDIO IN
L
R
S-VIDEO
OVER
AUDIO
Green
Blue
Red
Y
PB
PR
OUT
AUDIO OUT
R L
DVD Player

Connecting to a Camcorder

You may connect a camcorder, game console or other equipment to your television by using the front input jacks (INPUT-5) located under the front panel door. To access, push on the door to open it. You can also connect these using the television's side input jacks, using the same instructions.

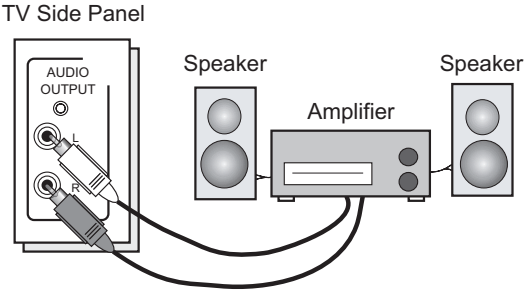


1) Connect a yellow composite cable from the camcorder VIDEO OUT, into the VIDEO IN on the front of the TV.
2) Connect a white cable from the camcorder LEFT AUDIO OUT, into the LEFT AUDIO IN on the front of the TV.
3) Connect a red cable from the camcorder RIGHT AUDIO OUT, into the RIGHT AUDIO IN on the front of the TV.

Note:

- If your camcorder is a mono sound model it will have only one AUDIO OUT. Connect it to the L/MONO on the front of the TV.

Connecting to an External Amplifier



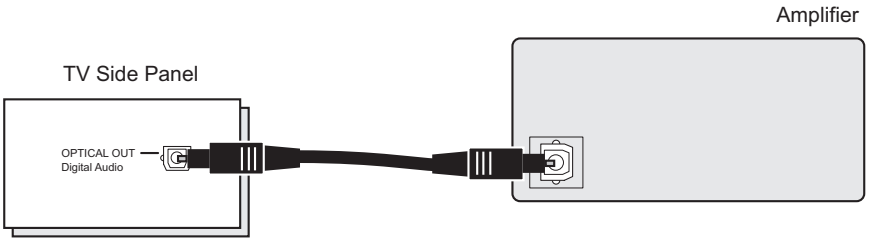
1) Connect a white cable from the LEFT AUDIO OUTPUT on the side of the TV to the LEFT AUDIO INPUT on the amplifier.
2) Connect a red cable from the RIGHT AUDIO OUTPUT on the side of the TV to the RIGHT AUDIO INPUT on the amplifier.

Notes:

- Refer to your amplifier's manual for more information.
- You can use AUDIO OUTPUT for your home theater system.
- You can not output audio using the AUDIO OUTPUT under the following conditions:
  1) When you have digital sound from an HDMI device connected to the INPUT-1 or INPUT-2 connection on the side of your TV. (See page 21).
  2) When you have analog sound from a DVI device connected to the AUDIO IN "INPUT-1" connection. (See page 20).

Connecting to an amplifier using your optical output

You can connect an amplifier that has an optical digital input terminal by using an optical digital cable from the optical output. The signal that is output can be PCM or DOLBY DIGITAL.



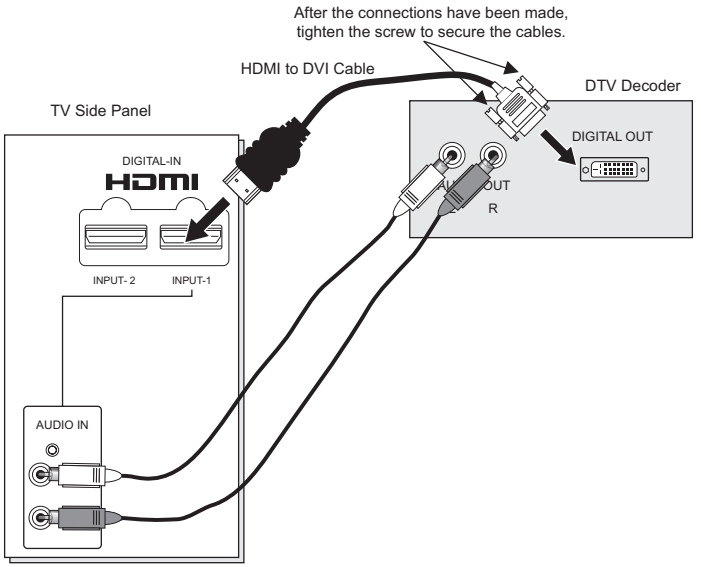
1) Connect the optical cable from the side of the TV to the back of the amplifier.

Notes:

- This terminal can only output digital audio.
- In order to use the optical output connection, select PCM or DOLBY DIGITAL on Digital Sound in the Digital Setup Menu. See page 50.
- Refer to your owners manual on using your amplifier.

Connecting to a Digital TV Receiver

By connecting a Digital TV Receiver, high definition pictures can be displayed on your TV in their digital form.



1) Connect the HDMI to DVI Cable from the DIGITAL OUT on the back of your DTV decoder, to the HDMI INPUT-1 on the side of your television.
2) Connect a red cable from the "R AUDIO OUT" on the back of your DTV Device, to the HDMI AUDIO IN "R" input terminal.
3) Connect a white cable from the "L AUDIO OUT" on the back of your DTV Device, to the HDMI AUDIO IN "L" input terminal.

- Personal computer compatibility cannot be guaranteed.
- Use a HDMI to DVI cable (commercially available) in order to digitally connect the television with a DTV decoder.

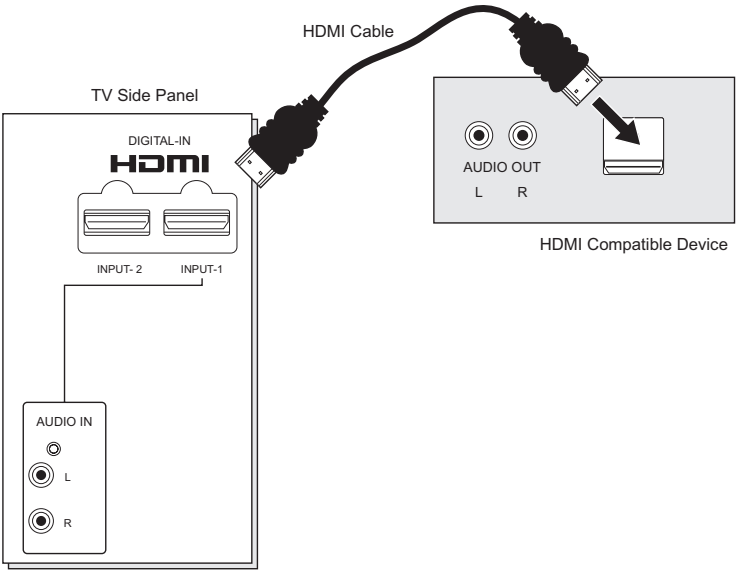
Notes:

- If 480p signals (640x480 or 720x480) are displayed on the screen, the horizontal balance may be slightly shifted. Access the “HDMI SIZE” in the initial setup menu to adjust it. (Refer to page 48.)
- When you do the above connection, set "VIDEO-1 AUDIO" in the Initial Setup menu to ANALOG. See "VIDEO-1 AUDIO", page 48.
- The Analog Audio input can only be used with the HDMI INPUT-1.
- When setting the “VIDEO-1 AUDIO – ANALOG / DIGITAL” menu setting on the TV, please note that this setting only effects the HDMI INPUT-1 jack and that if you use a DVI to HDMI adapter this connection must be made to the HDMI INPUT-1 along with analog audio cables.

Connecting to an HDMI Compatible Device

By connecting an HDMI compatible device, high definition pictures can be displayed on your TV in their digital form. Some HDMI devices can include DVD players, D-VHS or any HDMI compatible devices.

HDMI (High Definition Multimedia Interface) is the first industry supported, uncompressed, all digital audio/video interface. HDMI provides and interface between any audio/video source, such as a set-top box, DVD player, A/V receiver or an audio and/or video monitor, such as a digital television (DTV).



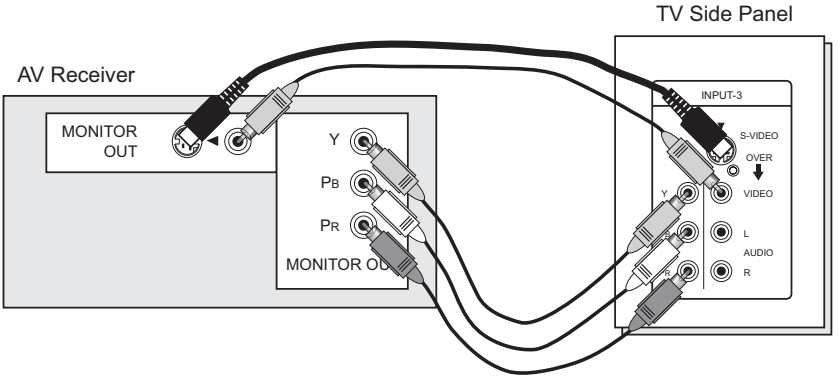
Connect the HDMI Cable from the DIGITAL OUT on your DTV or HDMI device, to the HDMI INPUT-1 or INPUT-2 on the side of your television.

Notes:

- When you do the above connection, set "VIDEO-1 AUDIO" in the Initial Setup menu to DIGITAL. See "VIDEO-1 AUDIO", page 48.
- Some decoders may not respond depending on the equipment that you have connected when it is connected to the HDMI.
- If the HDMI output device signal is changed (for example, 480i/60Hz is changed to 480p/60Hz), the screen may turn green and there may be some distortion for a short time until the signal becomes stable.

Connecting to an AV Receiver using your television's V3 Smart Input

By connecting your AV Receiver to your television's V3 Smart Input, you can watch picture sources from many different devices, without having to change or use the other input connections on your TV. This allows you to free up the other input connections so you can connect more devices to your television.



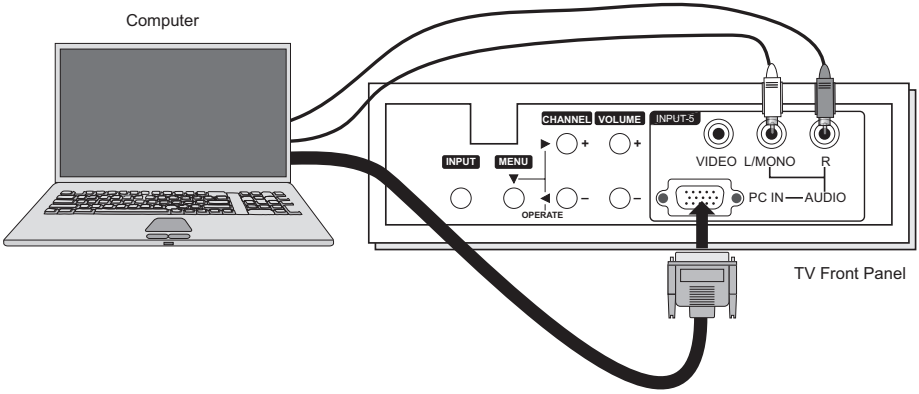
1) Connect an S-Video Cable from the AV Receiver's MONITOR OUT, to the S-Video INPUT-3 on the side of your television.
2) Connect a Yellow Composite Cable from the AV Receiver's MONITOR OUT, into the VIDEO INPUT-3 on the side of your television.
3) Connect a Green Component Cable from the AV Receiver's Y MONITOR OUT, into the Y VIDEO INPUT-3 on the side of your television.
4) Connect a Blue Component Cable from the AV Receiver's P_B MONITOR OUT, into the P_B VIDEO INPUT-3 on the side of your television.
5) Connect a Red Component Cable from the AV Receiver's P_R MONITOR OUT, into the P_R VIDEO INPUT-3 on the side of your television.

Notes:

- Please refer to your AV Receiver instruction manual for more information on connecting your speakers and other devices like a DVD player.
- Use your AV Receiver's remote to switch to the different devices you have connected.
- Some AV Receivers may not respond when the V3 Smart Input function is turned on. See page 45.
- If you have video connections for each input device connected to your AV Receiver, you should not connect them using both S-Video and Composite connection at the same time when you are using V3 Input as the V3 Smart Input. In this case we recommend using the S-Video connection.

Connecting to the computer

This TV can be used as a computer screen. Use a commercially available D-SUB cable to connect the TV's PC INPUT terminal to the computer's analog RGB output terminal. If you want to listen to the sound from the computer, use a commercially available RCA cable to connect the INPUT-5 audio input terminal to the computer's audio output terminal.



Notes:

- Refer to your computer manual for a detailed explanation of the connections concerning your computer.
- Make sure that the connectors are facing the correct way when connecting.
- After connecting, tighten the two screws to fix the connectors in place.

Looking at the images from a computer

After starting the computer, press the V5 button on the remote control. You can listen to the sound when the sound from the computer is connected to the INPUT-5 AUDIO input terminal.

Table of signals for each type of computer

Resolution	Vertical Frequency (Hz)	Horizontal Frequency (kHz)
640 x 480 (VGA)	60.0	31.5
1024 x 768 (XGA)	60.0	48.4

- Only the above formats are supported.
- Even with the above formats at 60 Hz, some problems may be experienced depending on the quality of the synchronous signal. (Depending on the quality, some pictures may not be displayed correctly).
- Apple Macintosh* computers are not supported.

When a picture is not displayed

With some computers, some problems can be solved by changing the settings. Check the computer's refresh rate and set it to 60Hz. Computers that cannot set the refresh rate to 60 Hz, can not be used with this TV. Refer to the computer's instruction manual.

*Apple Macintosh is a registered trademark of Apple Computer, Inc.

Note:

- If you are inputting a PC signal that is invalid, "Invalid Signal" will appear on the TV screen. It appears when the input is PC and it is a single screen.

Step 3 – The Interactive Plug In Menu

When you turn your television on for the first time the interactive plug-in menu will appear. The plug-in menu helps you to get your TV ready to use by letting you set your preferences for:

- The language in which you want the onscreen menus to appear.
- Setting the TV's clock to the correct time so your timer functions will work properly. You can choose "AUTO" or "MANUAL" for setting the clock.
- The auto tuner setup of which channels you wish to receive.

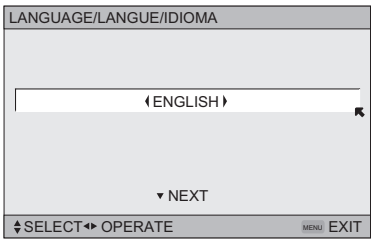
We recommend you complete the interactive plug-in items before you start using your television.

Notes:

- The interactive plug-in menu setting does not appear if your TV has been turned on before. In this case use the onscreen menus to perform these settings. See pages 41, 57, 31.
- If you press the Menu button while setting up the interactive plug-in menu, it will skip over it.

Language

After the "JVC INTERACTIVE PLUG IN MENU" has been displayed, the TV automatically switches to the LANGUAGE settings. You can choose to view your onscreen menus in three languages: ENGLISH, FRANÇAIS (French) or ESPAÑOL (Spanish).



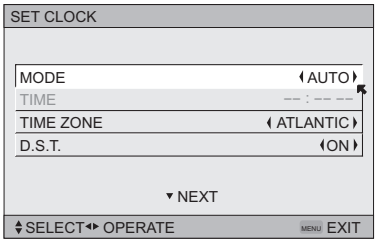
◀▶ To choose a language:
ENGLISH, FRANÇAIS or ESPAÑOL

▼ To NEXT (To set clock)

(Continued...)

Auto Clock Set

Before you use any of your TV's timer functions, you must first set the clock. You may precisely set your clock using the XDS time signal broadcast by most public analog broadcasting stations. If you do not have this in your area, you will have to set the clock manually. See manual clock set below. To set the clock using the XDS signal:



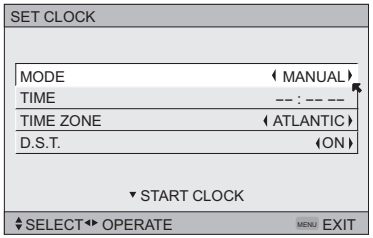
◀▶ To choose AUTO
▼ To TIME ZONE
◀▶ To select your time zone: (Atlantic, Eastern, Central, Mountain, Pacific, Alaska or Hawaii)
▼ To move to D.S.T. (Daylight Savings Time)
◀▶ To turn D.S.T. ON or OFF
▼ To NEXT (To Auto Tuner Setup)

Notes:

- D.S.T. can be used when it is set to ON in the SET CLOCK menu.
- Only when the MODE is set to AUTO, the Daylight Saving Time feature automatically adjusts your TV's clock for Daylight Saving.
- The real time and D.S.T. may not be set correctly depending on the broadcasting signal and receiving conditions. In this case, set your clock manually and turn D.S.T. to OFF.
- You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

Manual Clock Set

To set your clock manually (without using the XDS signal), choose MANUAL. If you choose AUTO, see auto clock set above.



◀▶ To choose MANUAL
▼ To TIME
◀▶ To set the hour
▼ To minute
◀▶ To set the minute
▼ To TIME ZONE
◀▶ To select your time zone: (Atlantic, Eastern, Central, Mountain, Pacific, Alaska or Hawaii)
▼ To move to D.S.T. (Daylight Savings Time)
◀▶ To turn D.S.T. ON or OFF
▼ To START CLOCK

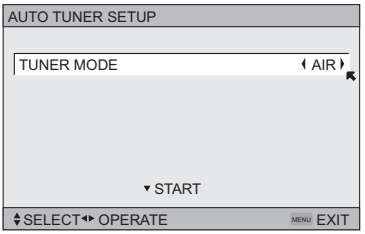
Note:

- You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

(Continued...)

Auto Tuner Setup

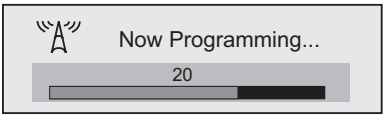
In auto tuner setup, the TV automatically scans through all available channels, memorizing the active ones and skipping over blank ones or channels with weak signals. This means when you scan (using the CHANNEL +/– buttons) you will receive only clear, active channels.



◀▶ To choose CABLE or AIR (or SKIP when you skip Analog Auto Tuner Setup)

▼ To START

After Analog Auto Tuner Setup is finished, Digital Auto Tuner Setup starts.



When the setup is finished, "THANK YOU ! SETUP IS NOW COMPLETE" is displayed. Your quick setup is now complete. You can now begin watching your television, or you can continue on in this guide for more information on programming your remote control, or using the JVC onscreen menu system to customize your television viewing experience.

Notes:

- If you want to cancel the Auto Tuner Setup, press the MENU button.
- Noise muting will not work during Auto Tuner Setup.
- If you choose SKIP, it finished without doing the Auto Tuner Setup.

Cable Box and Satellite Users: After your auto tuner setup is complete, you may, (depending on the type of hookup), have only 1 channel, usually 3 or 4 in the auto tuner memory. This is normal.

Onscreen Menus

Using the Guide

Certain symbols are used throughout this guide to help you learn about the features of your new television. The ones you will see most frequently are:

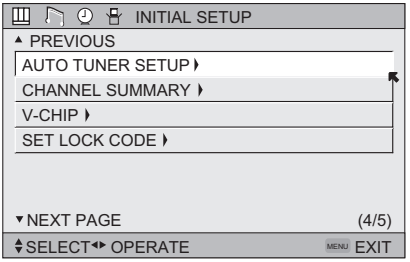
▲▼ Up and Down arrows mean:
- Move vertically in a main menu screen
- Move through a submenu screen
- Move to the next letter, number, or other choice in a submenu
- Back up to correct an error

◀▶ Left and right arrows mean:
- Select a highlighted menu item
- Select an item in a submenu
- Select numbers in certain menu options

The "press button" icon means you should press the button named on your remote control. (Button names appear in SMALL CAPITAL LETTERS.)

The "helping arrow" icon points to the highlighted or selected item in a menu.

To bring up the onscreen menu, press the MENU button on the remote control. The item that appears in green is the one currently selected. If you use the Menu button on the TV's front panel instead of the remote, an additional menu screen showing VIDEO STATUS and ASPECT will appear between INITIAL SETUP and PICTURE ADJUST. The "interactive plug-in menu" will appear the first time the TV is plugged in.



Note:

- Menus shown in this book are illustrations, not exact replications of the television's onscreen displays.

Onscreen Menus

The Onscreen Menu System

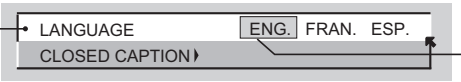
Your television comes with JVC's onscreen menu system. The onscreen menus let you make adjustments to your television's operation simply and quickly. Examples of the onscreen menus are shown on the next page. Detailed explanations on using each menu follow later in this guide. For information about the interactive plug-in Menu, see pages 25 - 27.

The Onscreen Menu System

To open the onscreen menu system, press the MENU button on the remote control. You navigate within the onscreen menus by using the four directional arrow buttons on the remote control.

The selected feature and option on a menu screen are highlighted in a different color.

Selected Option (Green)



Selected Option (Blue)

To move to a different feature use the ▲▼ arrows to move up or down the list. When you press the up arrow at the top of the list or the down arrow at the bottom, the next menu screen will appear. Use the arrows ◄ ► to select an option from the highlighted feature. Pressing MENU on the remote control will close the onscreen menu system and return you to normal television viewing.

Each menu and its features will be discussed in the following pages of this guide.

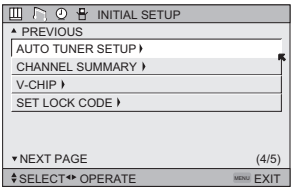
Notes:

- If you do not press any buttons for about a minute, the onscreen menu will automatically shut off.
- Button names in this guide are shown in SMALL CAPITAL LETTERS.
- Menus may appear in different sizes onscreen depending on the aspect ratio selected.
- Some menu items may not appear in menu screens when certain aspect ratios or inputs are selected.

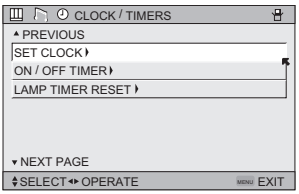
Onscreen Menus

Press the MENU button

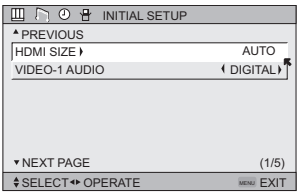
To INITIAL SETUP 03



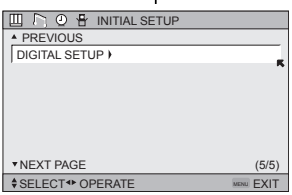
INITIAL SETUP 04



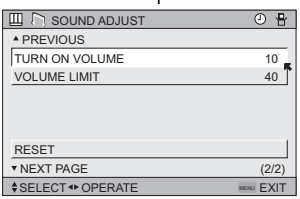
CLOCK/TIMERS



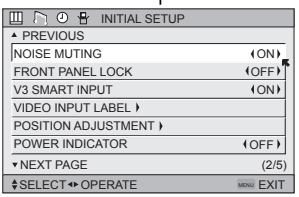
INITIAL SETUP 01



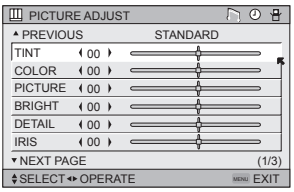
INITIAL SETUP 05



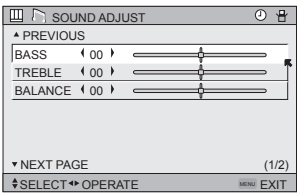
SOUND ADJUST 02



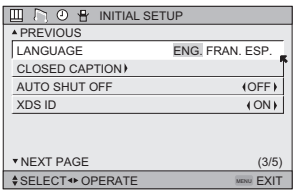
INITIAL SETUP 02



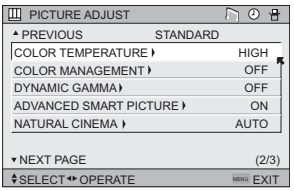
PICTURE ADJUST 01



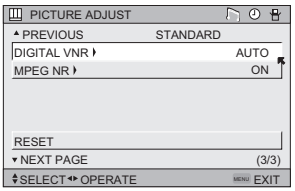
SOUND ADJUST 01



INITIAL SETUP 03



PICTURE ADJUST 02



PICTURE ADJUST 03

To INITIAL SETUP 04

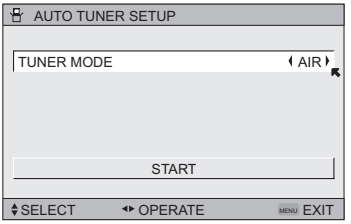
Notes:

- The HDMI SIZE menu can only be displayed when a 480p picture signal is input to the HDMI terminal and the picture is being displayed on the screen.
- ADVANCED SMART PICTURE menu cannot be displayed when DYNAMIC is selected for Video Status.
- When the Menu button on the TV front panel is pressed, the FRONT PANEL CONTROL menu between INITIAL SETUP 05 and PICTURE ADJUST 01 will appear.

Auto Tuner Setup

The auto tuner setup function is described on page 27 as the interactive plug-in menu. If you need to run the auto tuner setup again, follow the steps below.

- Press the MENU button
- ▲▼ To AUTO TUNER SETUP
- ◀▶ To operate
- ◀▶ To choose CABLE or AIR
- ▼ To START
- ◀▶ To start the setup



The auto tuner is finished when the message **PROGRAMMING OVER!** appears onscreen.

Press the Menu button when finished

Onscreen Menus

Channel Summary

Channel summary allows you to customize the line-up of channels received by your TV. Regarding analog channels, you can add or delete channels from the line-up or prevent any unauthorized viewers from watching any or all 181 channels. Regarding digital channels, the only channels that will appear are the ones that are broadcasting.

Press the MENU button

▲▼ To CHANNEL SUMMARY

◀▶ To operate

The Channel summary screen will now be displayed with the channels set to scan marked with an "√". Regarding analog channels, you can delete channels from the scan by removing the "√". If any channels were missed during auto tuner setup and you wish to add them, you may by placing an "√" next to the channel number.

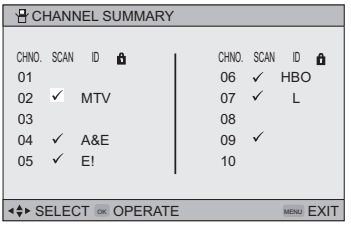
- Digital channels can not be added to the channel summary if the auto tuner setup did not find them.

▲▼◀▶ To the SCAN column

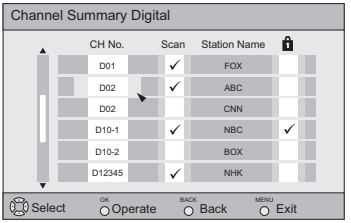
Press the OK button to include or delete from scan

Press the MENU button when finished

Analog Channels



Digital Channels

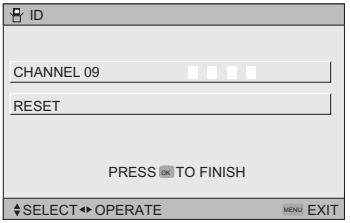


Note:

- The number of a digital channel may change, depending on the time of some broadcastings. If this channel existed and now has disappeared, the lock channel or scanned channel mark by the channel summary for that channel will be cancelled.

Onscreen Menus

How to set the channel label. ***(This is only for analog broadcasting.)***



Press the MENU button

▲▼ To CHANNEL SUMMARY
◀▶ To operate
◀▶ To the ID column

Press the OK button to enter

◀▶ To select the character you want
▲▼ To move to the next space

...continue to follow these directions for all four spaces

Press the OK button to finish

Your characters are now set

Press the MENU button when finished

If you want to reset the characters you set:

Press the MENU button

▲▼ To CHANNEL SUMMARY
◀▶ To operate
◀▶ To the ID column

Press the OK button to enter

▲▼ To select RESET

Press the OK button to finish

Your characters are now reset

Notes:

- You can use characters for: Alphabet, numbers, marks and spaces.
- It is possible to set the maximum of 40 channel labels.
- If you try to set more than the 40 maximum, the message "MEMORY OVERFLOW" will appear.

You can block access to a channel by activating the channel lock.

Press the MENU button

▲▼ To CHANNEL SUMMARY

◀▶ To operate

▲▼◀▶ To the Lock Column ( )

Press the ZERO button to lock or unlock that channel

Press the MENU button when finished

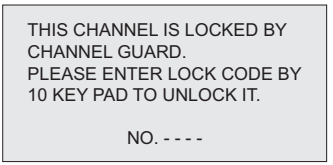
Onscreen Menus

Channel Guard Message

When a viewer attempts to watch a guarded channel, the following message appears:

To watch a channel that you have locked, enter the Lock Code using the 10 key pad.
If the wrong code is entered, the message "INVALID LOCK CODE!" will flash on the screen.

The channel cannot be accessed until the correct code is entered.



Notes:

- Once a channel has been unlocked, it will remain unlocked until the television is turned off.
- See also "Set Lock Code", page 40.

V-Chip

Your TV is equipped with V-Chip technology which enables you to block channels or content that you feel to be inappropriate for children, based on US and Canada rating guidelines. V-Chip has no effect on video signals from DVD discs or Camcorder connection.

Note: Some programs, and movies are broadcast without a ratings signal. Even if you set up V-CHIP ratings limits, these programs will not be blocked. See page 35 for information on how to block unrated programs.

Note (for Canadian viewers): The V-Chip function is based on specifications designed for the United States and therefore may not work properly in Canada.

You can customize the V-Chip settings of your television to match your personal tastes. The V-Chip menu below is the starting point for your V-Chip settings

You can use US V-Chip settings (for programming broadcast from the United States), Canadian V-Chip settings (for programming broadcast from Canada), and movie ratings. You may use any or all of the settings (US V-Chip, Canada V-Chip, Movie ratings). Descriptions for setting each of the three V-Chip formats appear in the next six pages along with descriptions of the rating categories.

To access the rating categories:

Press the MENU button

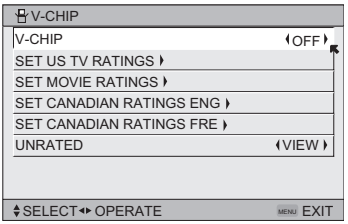
▲▼ To V-CHIP

◀▶ To operate (Lock icon will appear)

Press ZERO to access the V-Chip menu

◀▶ To turn V-Chip ON or OFF (V-Chip must be turned ON for rating settings to operate)

▲▼ To move to SET US TV RATINGS, SET MOVIE RATINGS, or SET CANADIAN RATINGS (see following pages for descriptions of each item)



Unrated Programs

Unrated programming refers to any programming which does not contain a rating signal. Programming on television stations which do not broadcast rating signals will be placed in the "Unrated Programming" category.

Examples of Unrated programs:

- Emergency Bulletins
- News
- Public Service Announcements
- Sports
- Some Commercials
- Locally Originated Programming
- Political Programs
- Religious Programs
- Weather

Note:

- TV programs or movies that do not have rating signals will be blocked if the unrated category is set to BLOCK.

Directions to Block Unrated Programs

You can block programs that are not rated.

Press the MENU button

▲▼ To V-CHIP

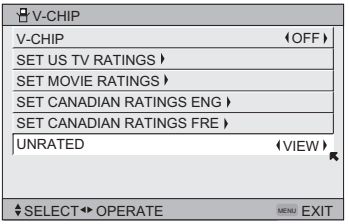
◀▶ To operate (The lock icon appears)

Press ZERO to access V-Chip setup options

▲▼ To UNRATED

◀▶ To VIEW or BLOCK

Press MENU when done



Onscreen Menus

US V-Chip Ratings

U.S. PARENTAL RATING SYSTEMS

Programs with the following ratings are appropriate for children.

- ❒ **TV Y is Appropriate for All Children**
  Programs are created for very young viewers and should be suitable for all ages, including children ages 2 - 6.
- ❒ **TV Y7 is for Older Children**
  Most parents would find such programs suitable for children 7 and above. These programs may contain some mild fantasy violence or comedic violence, which children should be able to discern from reality.

Programs with the following ratings are designed for the entire audience.

- ❒ **TV G stands for General Audience**
  Most parents would find these programs suitable for all age groups. They contain little or no violence, no strong language, and little or no sexual dialog or situations.
- ❒ **TV PG Parental Guidance Suggested**
  May contain some, but not much, strong language, limited violence, and some suggestive sexual dialog or situations. It is recommended that parents watch these programs first, or with their children.
- ❒ **TV 14 Parents Strongly Cautioned**
  Programs contain some material that may be unsuitable for children under the age of 14 including possible intense violence, sexual situations, strong coarse language, or intensely suggestive dialog. Parents are cautioned against unattended viewing by children under 14.
- ❒ **TV MA Mature Audiences Only**
  These programs are specifically for adults and may be unsuitable for anyone under 17 years of age. TV MA programs may have extensive V, S, L, or D.

Viewing Guidelines

In addition to the ratings categories explained above, information on specific kinds of content are also supplied with the V-Chip rating. These types of content may also be blocked. The content types are:

- **V/FV** is for VIOLENCE/FANTASY VIOLENCE
- **S** stands for SEXUAL CONTENT
- **L** stands for strong LANGUAGE
- **D** stands for suggestive DIALOG

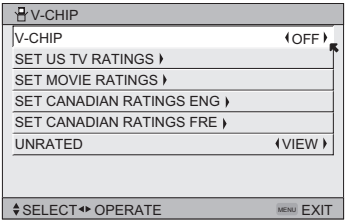
Setting US V-Chip Ratings

Press the MENU button

▲▼ To V-CHIP
◀▶ To operate (lock icon appears)

Press ZERO to access the V-Chip menu

◀▶ To turn V-Chip ON or OFF
▲▼ To move to SET US TV RATINGS
◀▶ To operate



Directions to set US V-Chip Ratings

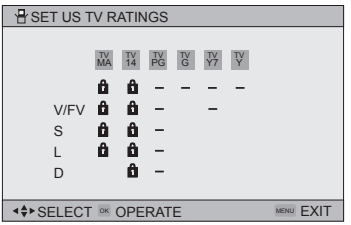
Line up the cursor in the column (TV PG, TV G, etc.) with the content row (V/FV, S, etc.) and press the ▲▼ or ◀▶ to move the cursor to the correct location. Press OK to turn the locking feature on or off. An item is locked if the icon appears instead of a "—".

For example. To block viewing of all TV 14 shows, move the cursor to the top row of that column and add a lock icon. Once you've put a lock on the top row, everything in that column is automatically locked.

▲▼◀▶ To the TV 14 Column

Press the OK button to lock

Press the MENU button when finished



Note:

- If you want to change the setup, move the cursor to the top column and change the lock icon to "—" by pressing OK again. You may then select individual categories to block.

Onscreen Menus

Movies Ratings

❒ **NR – Not Rated**
This is a film which has no rating. In many cases these films were imported from countries which do not use the MPAA ratings system. Other NR films may be from amateur producers who didn't intend to have their film widely released.

NR (Not Rated) Programming may contain all types of programming including children's programming, foreign programs, or adult material.

❒ **G – General Audience**
In the opinion of the review board, these films contain nothing in the way of sexual content, violence, or language that would be unsuitable for audiences of any age.

❒ **PG – Parental Guidance**
Parental Guidance means the movie may contain some contents such as mild violence, some brief nudity, and strong language. The contents are not deemed intense.

❒ **PG-13 – Parents Strongly Cautioned**
Parents with children under 13 are cautioned that the content of movies with this rating may include more explicit sexual, language, and violence content than movies rated PG.

❒ **R – Restricted**
These films contain material that is explicit in nature and is not recommended for unsupervised children under the age of 17.

❒ **NC-17 – No One Under 17**
These movies contain content which most parents would feel is too adult for their children to view. Content can consist of strong language, nudity, violence, and suggestive or explicit subject matter.

❒ **X – No One under 18**
Inappropriate material for anyone under 18.

Directions to set Movie (MPAA) Ratings

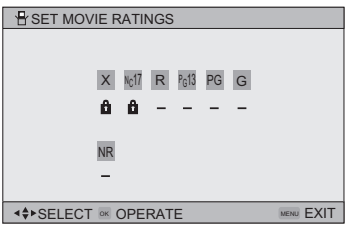
Press the MENU button

▲▼ To V-CHIP
◀▶ To operate (Lock icon appears)

Press ZERO to access V-Chip setup options

▲▼ To SET MOVIE RATINGS
◀▶ To enter movies menu

For example: To block viewing of programming rated NC-17 shows, move the cursor to the NC-17 column and add a lock icon. Once you've put a lock on the NC-17 column, X column is automatically locked.



▲▼◀▶ To the NC-17 Column

Press the OK button to lock

Press the MENU button to finish

- If you want to change the setup, move the cursor to the column and change the lock icon to "—" by pressing OK again.

Canadian V-Chip Ratings

- **E – Exempt**
  Exempt programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
- **C – Programming Intended for Children**
  Violence Guidelines: There will be no realistic scenes of violence. Depictions of aggressive behavior will be infrequent and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature.
- **C8+ – Programming Intended for Children 8 and Over**
  Violence Guidelines: Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. There will be no offensive language, nudity or sexual content.
- **G – General Audience**
  Programming will contain little violence and will be sensitive to themes which could affect younger children.
- **PG – Parental Guidance**
  Programming intended for a general audience, but which may not be suitable for younger children. Parents may consider some content not appropriate for children aged 8-13.
- **14+ – 14 Years and Older**
  Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Programming may contain mature themes and scenes of intense violence.
- **18+ – Adult**
  Material intended for mature audiences only.

Directions to set Canadian V-Chip Ratings

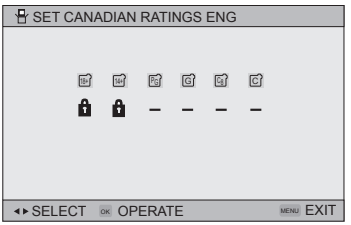
Press the MENU button

▲▼ To V-CHIP
◀▶ To operate (lock icon appears)

Press ZERO to access V-Chip setup options

▲▼ To SET CANADIAN RATINGS ENG (for English)
◀▶ To enter ratings menu

For example: To block viewing of programming rated 14+ shows, move the cursor to the 14+ column and add a lock icon. Once you've put a lock on the 14+ column, 18+ column is automatically locked.



◀▶ To the 14+ Column

Press the OK button to lock

Press the MENU button to finish

Notes:

- If you want to change the setup, move the cursor to the column and change the lock icon to "—" by pressing OK again.
- For instructions on "SET CANADIAN RATINGS FRE (in French)", please see page 39 in the French user's guide.

Onscreen Menus

Set Lock Code

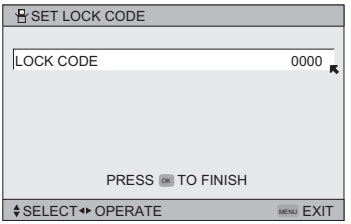
Channel guard and V-Chip settings are protected by a four-digit lock code. Your TV comes preset with a lock code of “0000”. You may change the code to any four-digit number you wish. To change the lock code, follow the steps below.

Press the MENU button

▲▼ To SET LOCK CODE

◀▶ To operate (lock icon appears)

Press ZERO to access the lock code



The first digit will be highlighted

◀▶ To select the number

▲▼ To move to the next digit

Continue to follow these directions for all four numbers

Press the OK button to finish (your lock code is now set)

Press the Menu button when finished

When a viewer attempts to watch a blocked channel, this message appears:

THIS PROGRAMMING EXCEEDS
YOUR RATING LIMITS.
PLEASE ENTER LOCK CODE BY
10 KEY PAD TO UNLOCK IT.
NO. - - - -

The channel will remain blocked until the correct lock code is entered (see above for information on setting your lock code).

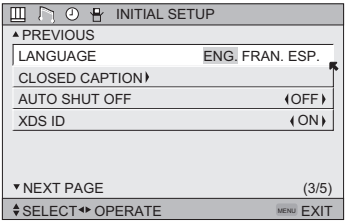
Notes:

- After a power interruption you must reset the lock code.
- Write your lock code number down and keep it hidden from potential viewers.
- If you forget the lock code, a new code may be set using the steps listed above.

Language

The language function is described on page 25 as the interactive plug-in menu. If you need to choose the language again, follow the steps below.

- Press the Menu button
- ▲▼ To LANGUAGE
- ◀▶ To choose a language: ENG. (English), FRAN. (French) or ESP. (Spanish)
- Press the MENU button when finished

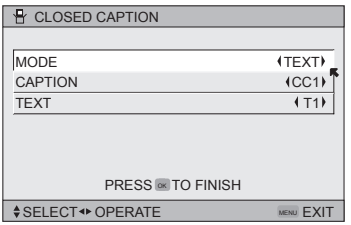


Closed Caption

Many broadcasts now include an onscreen display of dialog called closed captions. Some broadcasts may also include displays of additional information in text form. Your television can access and display this information using the closed caption feature. To activate the closed caption feature, follow the steps below. There are three methods. When you are watching analog channels, you can perform Analog Setting of closed caption. When you are watching digital channels, you can perform Digital Auto Setting or Digital Manual Setting.

Analog Setting

- Press the MENU button
- ▲▼ To CLOSED CAPTION
- ◀▶ To enter
- ▲▼ To MODE
- ◀▶ To select CAPTION or TEXT in MODE
- ▲▼ To CAPTION or TEXT
- ◀▶ To select a caption (CC1 to CC4) or text channel (T1 to T4)
- Press the OK button to save
- Press the MENU button when finished



Onscreen Menus

Digital Auto Setting

Press the MENU button

▲▼ To CLOSED CAPTION
◀▶ To enter
▲▼ To Type
◀▶ To select Auto, Advanced or Basic

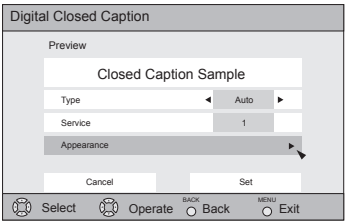
Auto: *Shows closed caption a priority for digital channels over analog channels. It is set automatically.*
Advanced: *Shows only the digital closed caption.*
Basic: *Shows only the analog closed caption.*

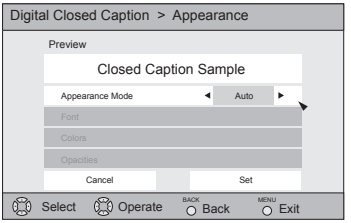
▲▼ To Service
◀▶ To select 1, 2, 3, 4, 5 or 6
▲▼ To Appearance
◀▶ To enter
◀▶ To select Auto
▲▼ To Set

Press the OK button to save

The font/type and color are set automatically.

Press the MENU button when finished





Note:
- If you want to cancel the settings, select cancel.

Digital Manual Setting

Press the MENU button

▲▼ To CLOSED CAPTION

◀▶ To enter

▲▼ To Type

◀▶ To select Auto, Advanced or Basic

▲▼ To Service

◀▶ To select 1, 2, 3, 4, 5 or 6

▲▼ To Appearance

◀▶ To enter

◀▶ To select Manual

▲▼ To Font

◀▶ To enter

▲▼ To select Font Size or Font Style

◀▶ To select the setting you like

Font Size: Auto, Standard, Large or Small

Font Style: Auto, Serif Mono, Serif, SanSerif Mono, SanSerif, Casual, Cursive or Small Capital

▲▼ To Set

Press the OK button to save

▲▼ To Colors

◀▶ To enter

▲▼ To select Text, Edge or Background

◀▶ To select the setting you like

Auto, White, Black, Red, Green, Blue, Yellow, Magenta or Cyan

▲▼ To Set

Press the OK button to save

▲▼ To Opacities

◀▶ To enter

▲▼ To select Text/Edge or Background

◀▶ To select Auto, Transparent, Translucent, Solid or Flashing

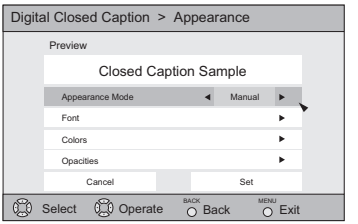
▲▼ To Set

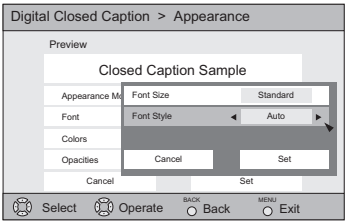
Press the OK button to save

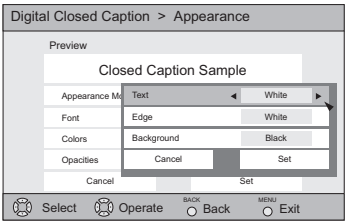
▲▼ To Set

Press the OK button to save

Press the MENU button when finished







All fonts used for digital closed caption and digital menus are licensed from Monotype Imaging Inc.

Notes:

- Closed caption subtitles are usually found on closed caption channel CC1. Some programs may include additional text information which is usually found on text channel T1. The other channels are available for future use.
- Closed captioning may not work correctly if the signal being received is weak or if you are playing a video tape.
- Most broadcasts containing closed captioning will display a notice at the start of the program.
- To select the mode, press the C.C. button. See page 67.
- When ZOOM aspects like PANORAMA or CINEMA are selected, Digital Closed Captions may be cut off or distorted.

Onscreen Menus

Auto Shut Off

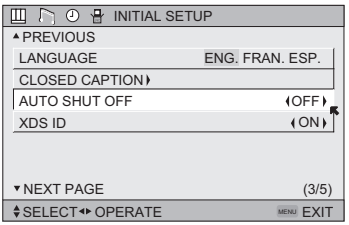
This function automatically shuts off your TV when there is no signal from the channel the TV is on.

Press the MENU button

▲▼ To AUTO SHUT OFF
◀▶ To turn ON or OFF

Press the MENU button when finished

- If the channel that you have on does not receive a signal for more than one minute, the blinking text "NOT RECEIVING A SIGNAL AUTO SHUT OFF IN 9 MIN." appears on the screen, and starts the countdown. If no signal is being received within 10 minutes, the TV shuts itself off.



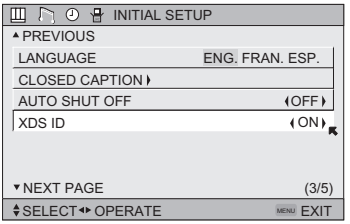
XDS ID

XDS ID Display provides a channel's call letters, the network's name, and even a program name. The XDS ID information is provided by the broadcaster.

Press the MENU button

▲▼ To XDS ID
◀▶ To turn ON or OFF

Press the MENU button when finished



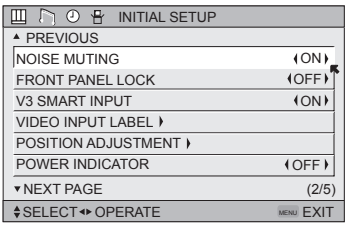
Noise Muting

This feature inserts a blank gray screen over channels which are not broadcasting or are too weak to be received clearly.

Press the MENU button

▲▼ To NOISE MUTING
◀▶ To turn noise muting ON or OFF

Press the MENU button when finished



Notes:

- Noise muting will not work during auto tuner setup or when you operate channel summary.
- Noise muting will not work when the digital TV is displayed.

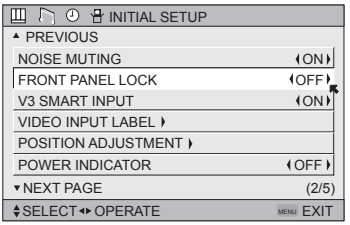
Front Panel Lock

This allows you to lock the keys on the front of the TV, so that a child may not accidentally change your viewing preferences.

Press the MENU button

▲▼ To FRONT PANEL LOCK
◀▶ To turn ON or OFF

Press the MENU button when finished



You can turn off this feature in the following ways:

– Use the remote control.
– Press the MENU button on the front of the TV for more than 3 seconds. In this case, the OSD for FRONT PANEL LOCK will appear.
– Turn off the TV and wait until the cool down process is completed. Unplug the power cord, and plug it back in. Do this if your batteries die or you lose your remote control.

Note:

- To turn ON/OFF the TV, press the power button for more than 3 seconds. This feature will remain ON.

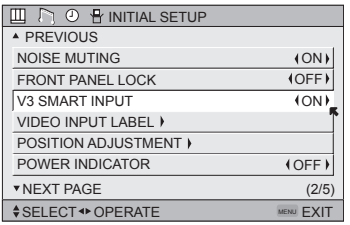
V3 Smart Input

This feature is used if you have connected an AV Receiver to your television. By turning this feature on, your television can automatically detect the signal source from your components that are connected to your AV Receiver.

Press the MENU button

▲▼ To V3 SMART INPUT
◀▶ To turn ON or OFF

Press the MENU button when finished



Notes:

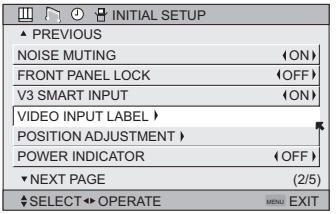
- If you do not have an AV Receiver connected to your television, turn this feature OFF.
- Some AV Receivers may not work with this function.

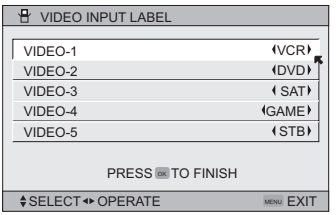
Onscreen Menus

Video Input Label

This function is used to label video input connections for the onscreen displays.

- Press the MENU button
- ▲▼ To VIDEO INPUT LABEL
- ◀▶ To enter
- ▲▼ To select the desired video input
- ◀▶ To select the desired preset input label (see chart below)
- Press the OK button to save
- Press the MENU button when finished



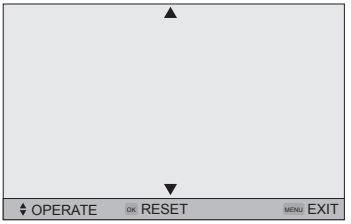


Preset Labels	Select when...
VCR	You have a VCR connected to the video input
DVD	You have a DVD connected to the video input
PVR	You have a Personal Video recorder connected to the video input
DVHS	You have a Digital VCR connected to the video input
STB	You have a Set-top Box connected to the video input
SAT	You have a Satellite Receiver connected to the video input
AMP	You have an Amplifier connected to the video input
GAME	You have a Video Game connected to the video input
CAM	You have a Video Camera connected to the video input
DISC	You have a Video Disc player connected to the video input

Position Adjustment

Position adjustment allows you to adjust the position of the picture on the screen vertically when the aspect is set to panorama or cinema.

Press the MENU button
▲▼ To POSITION ADJUSTMENT
◀▶ To enter
▲▼◀▶ To adjust the position
Press the MENU button to finish



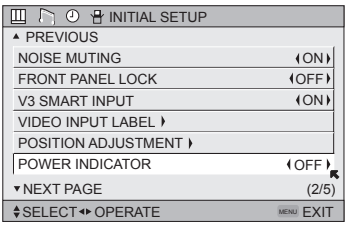
Notes:

- To reset the adjustment to the center, press the OK button.
- When the arrow disappears, while you are adjusting the position, the position is at its maximum limit.
- If you select REGULAR, SLIM and FULL size with aspect or Multi Screen, position adjustment option is not seen.
- When you change the screen size, perform the position adjustment again.
- Position adjustment allows you to adjust the screen position vertically and horizontally when the aspect is set Panorama Zoom or Cinema Zoom for 1080i and 720p signals, or when PC mode is set.
- It is also possible to use Position Adjustment when you are in PC Mode
- When you are receiving a 1080p signal, Position Adjustment can not be selected.

Power Indicator

Power indicator allows you to adjust the brightness of the power indicator

Press the MENU button
▲▼ To POWER INDICATOR
◀▶ To adjust POWER INDICATOR LOW, HIGH or OFF



Notes :

- When OFF is selected :
  The LED disappears if you have a TV signal.
  The LED is lit as “LOW” when there is no TV signal.
- When the On Timer turns ON, the LED is lit as "LOW" when you turn the power off.
- If you set a timer on the TV, the power indicator will light even if the TV is on stand by.

Onscreen Menus

HDMI Size

The HDMI SIZE option can only be displayed in the INITIAL SETUP menu when an HDMI 480p picture signal is being input to the HDMI terminal. This option adjusts the position when an HDMI or DVI 480p picture signal is being displayed on the screen. There are two types of HDMI 480p picture signals: 640x480 and 720x480. If the displayed picture is slightly shifted, the position can be adjusted by selecting AUTO, SIZE1 or SIZE2.

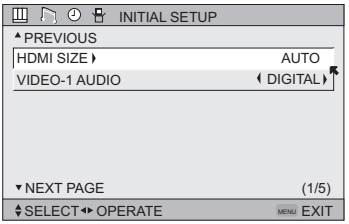
Press the MENU button

▲▼ To HDMI SIZE

◀▶ To enter

▲▼ To select AUTO, SIZE1 or SIZE2

Press the MENU button to finish



Notes:

- The HDMI SIZE menu can only be displayed when a HDMI or DVI 480p picture signal is input to the HDMI terminal and the picture is being displayed on the screen.
- You can select AUTO only when the signal is 480p for HDMI. When you select AUTO, the television will select "SIZE1" or "SIZE2" automatically.

Video-1 Audio

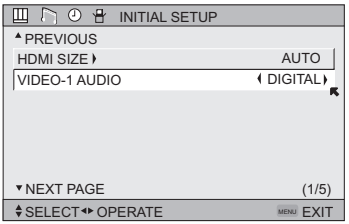
This feature is used if you have a DVI or HDMI compatible component connected to your TV.

Press the MENU button

▲▼ To VIDEO-1 AUDIO

◀▶ To select ANALOG, DIGITAL or AUTO

Press the Menu button when finished

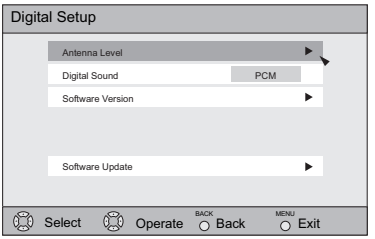


Notes:

- If your DVI or HDMI component is capable of digital audio and video, choose DIGITAL. If your DVI or HDMI component is capable of analog audio and digital video, choose ANALOG.
- Refer to your DVI or HDMI component's instruction manual for more information.
- When you select AUTO, the television will select "ANALOG" or "DIGITAL" automatically, depending on the audio input from the HDMI.

Digital Setup

Use this function when you are receiving a digital broadcast.



Press the MENU button

▲▼ To DIGITAL SETUP

◀▶ To enter

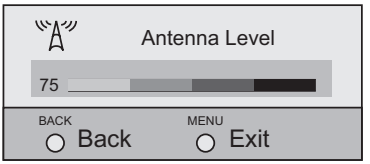
The onscreen will appear

Notes:

- Software Update will only appear when the USB memory is inserted into the USB connector.
- If you are watching an analog channel, you can still access the digital setup menu at anytime, while you are doing this, the background screen will turn blank. In this case, the tuner will switch to digital, since you are accessing the digital setup menu.

Antenna Level

Confirms the present antenna level.



Press the MENU button

▲▼ To DIGITAL SETUP

◀▶ To enter

▲▼ To Antenna Level

◀▶ To enter

Onscreen Menus

Digital Sound

You can select the optical digital sound output, either PCM or DOLBY DIGITAL when your TV is connected to an amplifier that has DOLBY DIGITAL decoder. If you select DOLBY DIGITAL, you can enjoy listening in 5.1ch sound when watching digital broadcasts.

Press the MENU button

▲▼ To DIGITAL SETUP
◀▶ To enter

▲▼ To Digital Sound

◀▶ To select PCM or DOLBY DIGITAL

Press the MENU button when finished

Notes:

- If your amplifier does not have DOLBY DIGITAL decoder, select PCM. If you don't select PCM, it cannot output the sound from the speakers.
- For connecting an amplifier using the optical output, see page 19.

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Software Version

You can confirm the Software Version.

Press the MENU button

▲▼ To DIGITAL SETUP
◀▶ To enter

▲▼ To Software Version

◀▶ To enter

◀▶ Select close when you are finished confirming your software version

Press the MENU button when finished

Software Update

At first, connect the USB memory into the USB connector. This function will appear only when the USB memory is inserted into the USB connector.

Press the MENU button

▲▼ To DIGITAL SETUP
◀▶ To enter
▲▼ To Software Update
◀▶ To enter
▲▼ Checks if it needs an update or not

Press the MENU button when finished

Onscreen Menus

Picture Settings

These settings allow you to change and adjust the way the picture appears on your television.

TINT
Tint allows you to adjust the levels of red and green in your TV picture.

COLOR
The color function lets you make all the colors in the TV picture appear either more vivid or subtle.

PICTURE
Picture allows you to adjust the levels of black and white on the TV screen, giving you a darker or brighter picture overall.

BRIGHT
You can adjust the overall brightness of the TV picture with the Bright control.

DETAIL
The Detail feature adjusts the level of fine detail displayed in the picture.

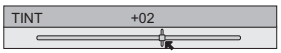
IRIS
The IRIS adjusts the level of brightness on the TV screen.

Adjust the Picture Settings

Press the MENU button

▲▼ To TINT, COLOR, PICTURE, BRIGHT, DETAIL or IRIS

◀▶ To enter

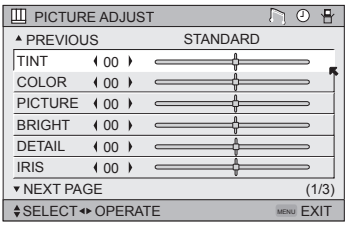


◀▶ To adjust the setting

▲▼ To back to the picture main menu

▲▼ To move to the next setting

Press the MENU button when finished



Note:

- There are four video status settings: Dynamic, Standard, Theater and Game. Each video status setting has a separate memory for HD (1080i/1080p/720p) and SD (480p/480i) video signal. Each video status can be chosen along with your favorite picture settings (Tint, Color, Picture, Bright, Detail, etc.) See page 67 for details.

Color Temperature

You can decide how strong or dull the colors appear on the TV screen.

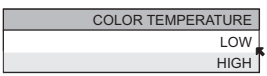
Press the MENU button

▲▼ To COLOR TEMPERATURE

◀▶ To enter

▲▼ To set LOW or HIGH

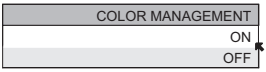
Press the MENU button when finished



Color Management

This TV supports the COLOR MANAGEMENT function to ensure dull colors are compensated to produce natural hues.

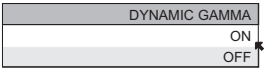
Press the MENU button
▲▼ To COLOR MANAGEMENT
◀▶ To enter
▲▼ To select the mode “ON" or "OFF"
Press the MENU button when finished



Dynamic Gamma

JVC's Dynamic Gamma Circuitry (DGC) makes it easier to see dark areas when a picture has many dark areas, and makes it easier to see the bright areas when a picture has many bright areas. DGC is turned on, DGC analyzes and adjusts the total level of picture brightness balance, especially in dark areas where the level of grayscale is often lost, turning completely to black DGC automatically enhances the detail in these dark areas providing a more dynamic image with finer detail, so the optimum picture settings are automatically set for each picture. Normally use with DGC on.

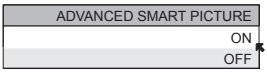
Press the MENU button
▲▼ To DYNAMIC GAMMA
◀▶ To enter
▲▼ To turn ON or OFF
Press the MENU button when finished



Advanced Smart Picture

Advanced Smart Picture detects the APL (Average Picture Level) and adjusts the level of brightness on the TV screen suitable for what you are watching.

Press the MENU button
▲▼ To ADVANCED SMART PICTURE
◀▶ To enter
▲▼ To select the mode "ON" or "OFF"
Press the MENU button when finished



Note:

- When you have "DYNAMIC" selected in the "VIDEO STATUS", Advanced Smart Picture is not selected.

Onscreen Menus

Natural Cinema

Natural cinema corrects the problem of blurred edges which may occur when viewing a program originally shot on film (such as motion pictures) or animation. If you notice blurring at the edges of these programs, choose NATURAL CINEMA and set it to AUTO. Natural Cinema helps correct conversion errors that occur when film, which is shot at 24 frames-per-second, is broadcast at the television rate of 30 frames-per-second.

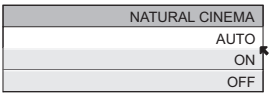
Press the MENU button

▲▼ To NATURAL CINEMA

◀▶ To enter

▲▼ To select the mode “AUTO", "ON" or "OFF”

Press the MENU button when finished



Notes:

- When you are receiving a 1080p signal, Natural Cinema can not be selected.
- The natural cinema mode is automatically set to “AUTO” in the following cases:
  - Turning on or off
  - Changing the channel or input mode
- If you are in PC mode, Natural Cinema can not be used.

Digital VNR

This function can be selected to change the effect of Digital VNR (Video Noise Reduction).

Press the MENU button

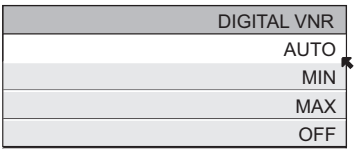
▲▼ To DIGITAL VNR

◀▶ To enter

▲▼ To select the effect you like.

AUTO: adjusts the effect of VNR automatically.
MIN: adjusts the effect of VNR to minimum.
MAX: adjusts the effect of VNR to Maximum.
OFF: turns the effect of VNR off.

Press the MENU button when finished



Notes:

- If it is in PC, Digital VNR will not be displayed.
- When you are receiving a 1080p signal, Digital VNR can not be selected.

MPEG NR

This function effects the block noise removal and mosquito NR (Noise Reduction) simultaneously.

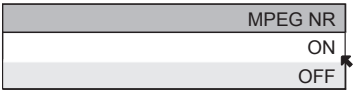
Press the MENU button

▲▼ To MPEG NR

◀▶ To enter

▲▼ To select ON or OFF

Press the MENU button when finished



Notes:

- When you are receiving digital channels, block noise removal will have no effect.
- When you are receiving a 1080p signal, MPEG NR can not be selected.

Reset

Reset resets all picture adjustments (Tint, Color, Picture, Bright, Detail, Iris, Color Temperature, Color Management, Dynamic Gamma, Advanced Smart Picture, Digital VNR and MPEG NR) at once to the default settings.

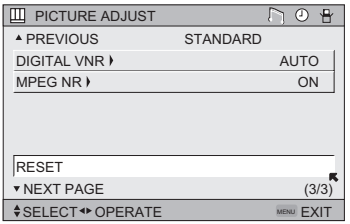
Press the MENU button

▲▼ To RESET

◀▶ To enter

The onscreen menu disappears for a moment, and then the settings are reset to the default setting for all the picture adjustments.

Press the MENU button when finished



Onscreen Menus

Sound Settings

These settings allow you to change and adjust the sound on your television.

BASS – You can increase or decrease the level of low-frequency sound in the TV's audio with the bass adjustment.

TREBLE – Use treble to adjust the level of high-frequency sound in your TV's audio.

BALANCE – Adjust the level of sound between the TV's left and right speakers with the balance setting.

Adjust the Sound Settings

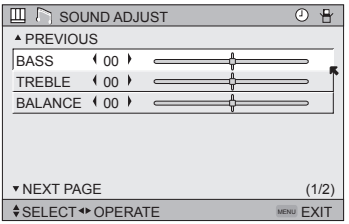
Press the MENU button

▲▼ To BASS, TREBLE or BALANCE

◀ ▶ To adjust the setting

▲▼ To move to the next setting

Press the MENU button when finished



Note:

- You can reset the sound adjustments (BASS, TREBLE and BALANCE) you set at once as the default setting when you select reset.
- You can adjust BALANCE only when A.H.S.+ is off. See page 66.

Turn On Volume

Turn On Volume allows you to set the volume level when you turn the TV on.

Press the MENU button

▲▼ To TURN ON VOLUME

◀▶ To set

Current ⟷ 00 ⟷ 01 ⟷ 02 ⟷ 03 ⟷ 48 ⟷ 49 ⟷ 50

Press the MENU button to finish

Volume Limit

Volume Limit allows you to set the maximum volume level.

Press the MENU button

▲▼ To VOLUME LIMIT

◀▶ To set the maximum volume level

00 ⟷ 01 ⟷ 02 ⟷ 03 ⟷ 48 ⟷ 49 ⟷ 50

Press the MENU button to finish

Reset

Reset resets all Sound Adjustments (Bass, Treble, Balance, Turn On Volume and Volume Limit) at once to the default settings. See page 55 on how to use reset.

Set Clock

The set clock function is described on page 26 as the interactive plug-in menu. You can choose to set the clock automatically or manually. If you need to set the clock again, follow the steps below.

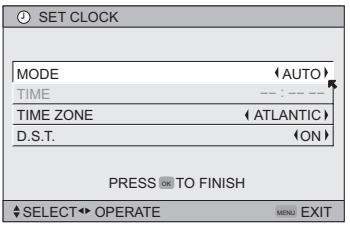
Press the MENU button
▲▼ To SET CLOCK
◀▶ To enter

When you set the clock automatically, choose AUTO by pressing the ◀ or ▶ arrows.

▲▼ To TIME ZONE
◀▶ To select your time zone

ATLANTIC ⟷ EASTERN ⟷ CENTRAL ⟷ MOUNTAIN ⟷ PACIFIC ⟷ ALASKA ⟷ HAWAII

▲▼ To D.S.T. (daylight savings time)
◀▶ To turn D.S.T. ON or OFF
Press OK to finish
Press the MENU button when finished

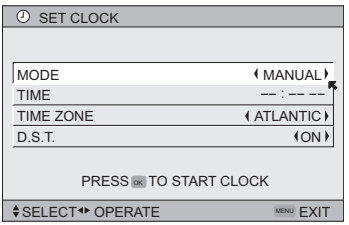


When you set the clock manually, choose MANUAL by pressing the ◀ or ▶ arrows.

▲▼ To move to the hours
◀▶ To set the hours
▲▼ To move to minutes
◀▶ To set the minutes
▲▼ To TIME ZONE
◀▶ To select your time zone:
(Atlantic, Eastern, Central, Mountain, Pacific, Alaska or Hawaii)
▲▼ To D.S.T. (daylight savings time)
◀▶ To turn D.S.T. ON or OFF
Press OK to start clock

THANK YOU !!

Press the MENU button when finished



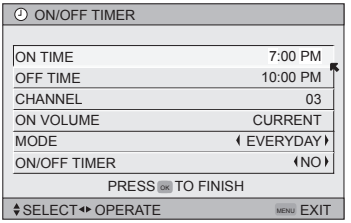
Notes:

- D.S.T. can be used when it is set to ON in the SET CLOCK menu.
- Only when the MODE is set to AUTO, the Daylight Saving Time feature automatically adjusts your TV's clock for Daylight Saving.
- The real time and D.S.T. may not be set correctly depending on the broadcasting signal and receiving conditions. In this case, set your clock manually and turn D.S.T. to OFF.
- You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

Onscreen Menus

On/Off Timer

The on/off timer lets you program your television to turn itself on or off. You can use it as an alarm to wake up, to help you remember important programs, or as a decoy when you're not home.



- Press the MENU button
- ▲▼ To ON/OFF TIMER
- ◀▶ To enter (begins with ON TIME)
- ◀▶ To set the hour (AM/PM) you want the TV to turn on
- ▲▼ To move to minutes
- ◀▶ To set the minutes
- ▲▼ To accept ON TIME and move to OFF TIME (the time the TV will turn off). Set the OFF TIME the same way as ON TIME
- ▲▼ To accept OFF TIME and move to CHANNEL
- ◀▶ To select channel
- ▲▼ To ON VOLUME
- ◀▶ To set the volume level
- ▲▼ To move to MODE
- ◀▶ Choose ONCE or EVERYDAY
- ▲▼ To ON/OFF TIMER
- ◀▶ Choose YES to accept the timer setting, choose NO if you don't wish to accept
- Press the OK button to finish
- Press the MENU button to exit the menu

Notes:

- The on/off timer cannot be set to locked or guarded channels.
- In order for the on/off timer to work, the clock must be set.
- After a power interruption, the timer settings must be reset.

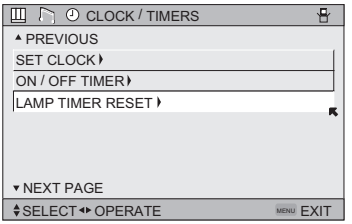
Lamp Timer Reset

The lamp replacement message will appear when you need to change the lamp. After you replace the lamp, you need to reset the timer which is built into your television.

Press the MENU button

▲▼ To LAMP TIMER RESET

◀▶ To Enter



The following message will appear.

PRESS OK TO RESET THE LAMP TIMER.

Press the OK button while the above message appears on the television screen.

THE LAMP TIMER IS RESET SUCCESSFULLY.

The lamp timer has now been reset.

Notes:

- You can use the Lamp Timer Reset only after replacing the lamp.
- See Page 78 for instructions on lamp replacement.

Button Functions

Power

Turns the TV on or off.

Press the POWER button

Note:

- After turning the power on, you can not turn the power off for about one minute.

Number Buttons - 10Key Pad

Use the number buttons on the remote control to move directly to a specific channel. For example, to move to channel 12:

1 (One)

2 (Two)

Tune

Lets you decide the input channel and select it. After you press the number buttons on the remote, press the TUNE button. For example, to move to channel 12:

1 (One)

2 (Two)

Press the TUNE button

Channel +/–

Use these buttons to move up or down all the available channels your TV is able to receive. To move rapidly through the channels using JVC's **Hyperscan** feature, press and hold CH+ or CH–.

Volume +/–

Use these buttons to raise or lower the TV's volume level. The maximum is the level you set in Volume Limit. See page 56.

Muting

The MUTING button instantly turns the volume down completely when you press it. Press MUTING and the volume level will instantly go to zero. To restore the volume to its previous level, press MUTING again.

Button Functions

D/A (Digital/Analog)

The D/A button changes the analog and digital channel. Digital channels have a "D" in front of the channel number.

Press the D/A button

By every press of the D/A button, you can switch between analog and digital channels.

To watch digital channels

For example, to move to channel D23:

Press 2 (Two)

Press 3 (Three)

Press the TUNE button

Mode

Your remote control can be used to operate some basic functions of your external devices. To use your device, select the proper mode.

Press the MODE button

By every press of the Mode button, you can select the mode.

TV → STB → VCR → DVD → AUDIO

- The indicator on the remote control lights for 3 seconds each time the remote control is operated.

MODE	TV	STB	VCR	DVD	AUDIO
Device	TV	STB/DVR (Cable Satellite)	VCR/DVR	DVD Player (DVD Recorder)	Amplifier/Home Theater in Box

- The mode light, except for TV lights to indicate which mode is selected.

Input

Selects the signal input source for the television: VIDEO-1, 2, 3, 4 or 5 for video devices like VCRs, DVD players or camcorders.

Press the V1, V2, V3, V4 or V5 button

Notes:

- When you return to TV mode, press the RETURN +/TV button or direct 10 key pad or CHANNEL +/– button.
- You can also access by pressing the INPUT button on the front of the TV instead of the remote control.
- If you have a PC connected to the TV, select VIDEO-5 (V5).

Button Functions

Return +/TV

The RETURN+/TV button has three functions:

Return - Returns to the channel viewed just before the channel currently onscreen.

Return+ - Lets you program a specific channel to return to while scanning through the channels using the CH+ and CH– buttons.

TV - Returns to the TV mode.

Press the RETURN+/TV and hold for three seconds

RETURN CHANNEL
PROGRAMMED!

The channel currently active has been programmed as your return+ channel. Now scan through the channels using the CHANNEL+/– buttons.

Press the RETURN+/TV

You will return to your programmed channel.

- To cancel your return+ channel, press and hold the RETURN+/TV button for three seconds. The message “RETURN CHANNEL CANCELLED!” will appear.
- Return+ works only with the Channel+/– buttons. Pressing any number key will cancel return+.

Light

All remote control buttons are illuminated, except for the Light button. Press the LIGHT button to turn the illumination on for 5 seconds.

Menu

The MENU button allows you to access JVC’s onscreen menu system. Press MENU to activate the onscreen menu system.

- See individual topics like “Sound Adjust” for specific information on using menus.

OK

This button confirms your selection when you are in one of the onscreen menus.

Back

This button allows you to go back in the menu to change a selection or correct a mistake.

Button Functions

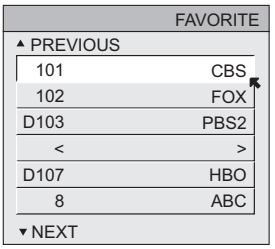
Favorite

The Favorite button allows you to select your favorite channels easily. First, you must register the channels that you like. See how to register below.

Press the FAVORITE button
The favorite channel list will appear.

▲▼ To select the channel you want to watch

Press the OK button
It will change to the channel you have selected.



Register the favorite channel

Press the channel number you want to register
The channel program will change.

Press the FAVORITE button for three seconds
The channel will be registered in the favorite channel list.

Notes:

- Both analog and digital channels can be registered. The digital channels have a "D" in front of the channel number.
- The maximum number of channels you can register is 24.
- If you have registered the maximum number of channels, and try to register more channels, the oldest channel you registered will be deleted.
- Sub channels can not be registered.
- The newest channel you registered will appear at the top of the list.

Delete the favorite channel

Press the FAVORITE button
The favorite channel list will appear.

▲▼ To select the channel you want to delete
◀▶ To enter
Press the FAVORITE button
The channel was deleted.

Note:

- Before pressing the FAVORITE button when you are finished, press the ◀▶ button again, and you can return to the deleted channel.

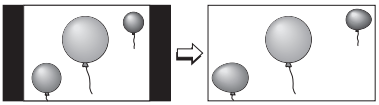
Button Functions

Aspect

This feature will help you adjust the picture you are watching to give you the best possible picture quality.

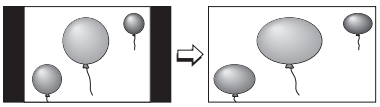
Aspect Ratios

PANORAMA - With this ratio a normal 4:3 aspect picture is stretched to fit the dimensions of the 16:9 aspect screen.

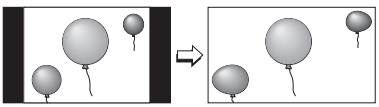


CINEMA - This ratio "zooms in" on the center part of a 4:3 aspect picture, blowing it up to fill the 16:9 screen.

FULL - This is the ratio to use when watching 16:9 High-Definition broadcasts.

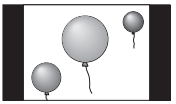


PANORAMA ZOOM - This ratio stretches the High-Definition 16:9 aspect image to eliminate the black side bars.

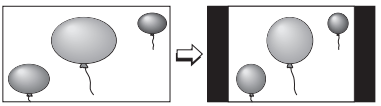


CINEMA ZOOM - This ratio stretches the High-Definition 16:9 aspect image to eliminate the black surrounding bars.

REGULAR - The regular ratio is used when you want to watch a 4:3 broadcast or recorded program without modifying the original picture to fit the dimensions of your 16:9 screen. The 4:3 picture will fill the screen from top to bottom, while black bars will appear to fill up the remaining space along the picture's sides. The 4:3 picture will be centered within the boundaries of the 16:9 screen.

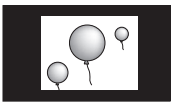


SLIM - This aspect mode shrinks the screen of 16:9 to 4:3. There are some programming that is already stretched by mistake at broadcasting companies, so this mode corrects it. Black side bars will appear.

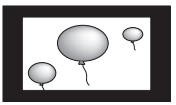


Aspect Ratios in PC Mode

REGULAR - This is the original aspect mode.



FULL - This aspect mode stretches the image to fit the dimensions of the 16:9 aspect screen.



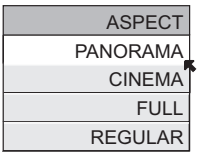
Aspect Ratios (Continued)

Press the ASPECT button

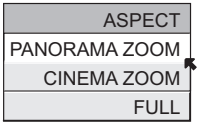
- *By pressing the ASPECT button, you can change the size.*

When you change the aspect ratios, it is different from their broadcast or recorded program.

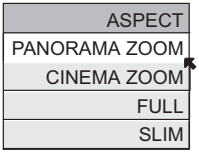
SD (480i, 480p)
NTSC, 480i, 480p



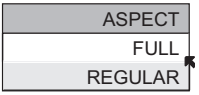
HD (1080i, 720p)
ATSC (1080i, 720p)



ATSC (480i, 480p)



PC



Notes:

- You can also choose the size by pressing the ▲▼ buttons.
- When you change the aspect ratio or signal, reset the picture position to center.
- You can also access the FRONT PANEL CONTROL screen by using the MENU button on the front of the TV instead of the remote control. It appears between INITIAL SETUP and PICTURE ADJUST screen, and it has VIDEO STATUS and ASPECT menus. Choose ASPECT by pressing Menu ▼ on the front panel and choose a mode by using the CHANNEL +/- buttons.
- "SLIM" can only be displayed when the signal is ATSC (480i or 480p).
- If the television receives a 16:9 signal from your HDMI device, the aspect mode will turn to FULL automatically. If the television receives a 4:3 signal from your HDMI device when you are in FULL aspect mode, it will return to REGULAR aspect mode. If you change the aspect mode after the television changed it to FULL automatically, the television will change to the aspect mode you choose.
- When you are receiving a 1080p signal, you can not change the aspect ratios.

Guide

You can view the program from the GUIDE.

Notes:

- The GUIDE function will only work when you are receiving digital programming only.
- The GUIDE will not show the correct time and date if you have not performed the set clock function on your television. See page 57.

Button Functions

Sound

By pressing the SOUND button, you can change the A.H.S.+ (Advanced Hyper Surround plus) mode, A.T.C. (Advanced Tone Correction), SMART SOUND and HYPER BASS on or off.

A.H.S.+ - Adds a more spacious surround sound. Music gives basic effect and movie for more effect.

A.T.C. - Reproduces distinctive sounds with tone correction.

SMART SOUND - Decreases high sound levels, giving a regulated sound level.

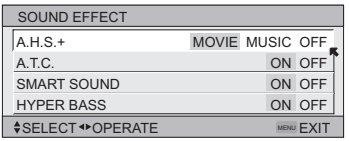
HYPER BASS - Increases bass levels, giving a richer, deeper bass.

Press the SOUND button

▲▼ To select A.H.S.+, A.T.C., SMART SOUND or HYPER BASS

◀▶ To choose the setting

Press the MENU when finished



Notes:

- Smart Sound may become an unnatural effect, depending on the signal source.
- You can adjust BALANCE only when A.H.S.+ is off.

Sub Channel

The main channel sometimes has minor channels (Sub Channels). By using the SUB CH button, you can select a sub channel easily.

At first, select TV or STB mode to use the Sub channel function. See page 61.

To watch sub channels

For example, to move to sub channel 123-45:

Press 1, 2 and 3 in order

Press the SUB CH button

Press 4 and 5 in order

Press the TUNE button

Note:

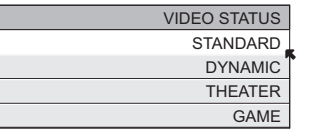
- If there are more than 2 major channels, select the digital channel by using the ▲▼ buttons and then press the OK button.

Button Functions

Video Status

The VIDEO STATUS button gives you a choice of four TV picture display settings, including a display of your own preferences.

Standard - Resets the picture display to the factory settings.
Dynamic - Gives a vivid picture with better contrast when viewing in a brightly lit room.
Theater - Gives a rich, film-like look to video when viewing in a dimly lit room.
Game - Used for when you are playing video games connected to your TV.



Press the VIDEO STATUS button
By every press of the VIDEO STATUS button, you change the mode.

Note:

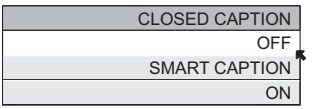
- You can also change the mode by pressing the ▲▼ buttons.
- Each mode is memorized for each input connected to the TV.
- You can also access the FRONT PANEL CONTROL screen by using the MENU button on the front of the TV instead of the remote control. It appears between INITIAL SETUP and PICTURE ADJUST screen, and it has VIDEO STATUS and ASPECT menus. Choose VIDEO STATUS by pressing MENU ▼ on the front panel and choose a mode by using the CHANNEL +/- buttons.
- There are four video status settings: Dynamic, Standard, Theater and Game. Each video status setting has a separate memory for HD (1080i/1080p/720p) and SD (480p/480i) video signal. Each video status can be chosen along with your favorite picture settings (Tint, Color, Picture, Bright, Detail, etc.)
  - – When an HD signal is displayed: Your HD settings are recalled for the video status you are using.
  - – When an SD signal is displayed: Your SD settings are recalled for the video status you are using.
  - – The input you are using (Input-1, Input-2, etc.) does not affect the setting that is recalled, just the signal type.
  - – This function considers PC input as an HD signal and TWIN screens as an SD signal.

C.C. (Closed Caption)

Use the C.C. (Closed Caption) button to select the mode of closed caption.

At first, select TV, STB or VCR mode to use the closed caption function. See page 61.

Press the C.C. button



Notes:

- SMART CAPTION will appear when you press the MUTING button only on channels where the broadcast contains closed captioning.
- When you select ON, it will be the mode selected in the Closed Caption Menu.
- See page 41 when you set the caption/text mode.
- You can also change the mode by pressing the ▲▼ buttons.
- If you are in PC mode, C.C. can not be used

Button Functions

Sleep Timer

The Sleep Timer can turn the TV off for you after you fall asleep. Program it to work for a total time of up to 180 minutes.

At first, select TV mode to use the sleep timer function.

Press the SLEEP button

0 15 30 45 60 90 120 180

Sleep Timer Message

60 seconds before the automatic shutoff, this message will appear:

GOOD NIGHT !
PUSH SLEEP TIMER BUTTON
TO EXTEND

You then have 60 seconds to press the SLEEP button to delay the shut off.

ML/MTS

MTS technology allows several audio signals to be broadcast in analog at once, giving you a choice in what you wish to hear with a TV program. In addition to mono or stereo sound, an MTS broadcast may also include a second audio program (SAP).

At first, select TV mode to use the multi-language/MTS function.

Press the ML/MTS button

By every press of the ML/MTS button, you change the mode

	MTS
ON AIR	STEREO
ON AIR	SAP
	MONO

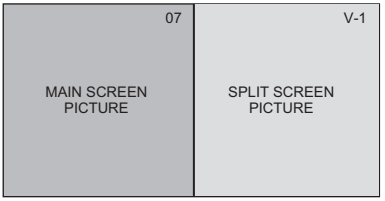
Notes:

- When you are receiving a digital broadcast, if there are other languages, you can change the language by pressing the ML/MTS button.
- Keep the TV in stereo mode to get the best sound quality. The sound will work in stereo mode even if a certain broadcast is in mono sound only.
- Choose the mono setting to reduce excessive noise on a certain channel or broadcast.
- Selecting SAP will allow you to hear an alternative soundtrack, if one is available.
- MTS unavailable if your television's Input source is in VIDEO-1, 2, 3, 4 or 5 mode, as described on page 61.
- ML/MTS will not work when you are using the HDMI.
- You can also change the mode by pressing the ▲▼ buttons.

Button Functions

Twin

Activate the split-screen option by pressing TWIN on the remote control. The channel (or input) you were watching before pressing TWIN will appear on the left, the new channel will appear on the right. The sound will continue to come from the main screen channel (or input). To turn split-screen off and return to normal television viewing, press TWIN again or press the BACK button.



At first, select TV mode to use the TWIN function.

Notes:

- Main Screen and Split Screen will not display the same channel or input at the same time.
- You can enter the TWIN mode when the screen is in NORMAL mode.
- Split screen will not display digital channels.
- Split-screen functions will not work with locked channels or channels blocked by V-Chip ratings limits. A gray screen will display instead.
- With split screen, the picture from the component terminal and HDMI terminal will not be displayed.
- The aspect of MAIN CHANNEL PICTURE becomes 16:9 when you input the picture of 480p, 720p and 1080i from the component terminal and HDMI terminal.
- After you press the SELECT button, and select SPLIT SCREEN when you press the OK button, select normal screen. If you don't operate, the MAIN CHANNEL SCREEN will be automatically selected about 8 seconds later.
- Aspect does not work in Twin mode.
- When you press the Menu button in Twin mode, it appears only as Picture Adjust menu.
- When you are in PC mode or 1080p mode, TWIN, SWAP, SELECT and FREEZE can not be used.

Swap

You can exchange the channel (or input) displayed in the split screen window for the main screen image by pressing the SWAP button.

At first, select TV mode to use the SWAP function.

Notes:

- It will only work in TWIN mode.
- If the signal that you are watching is coming from the HDMI input, you can not enter the SWAP mode.

Button Functions

Select

With SELECT, you can select the picture (channel) while viewing TWIN screen. When you press SELECT button, the channel number on the top will be highlighted. Each press of SELECT will shift the channel.

At first, select TV mode to use the Select function.

Freeze

Pressing the FREEZE button causes the screen to change to the split-screen display with the still picture displayed on the right. In order to return to the normal display, press the FREEZE button once again.

At first, select TV mode to use the Freeze function.

Display

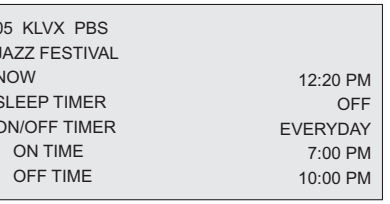
The display screen shows the current status of timers, inputs and XDS ID.

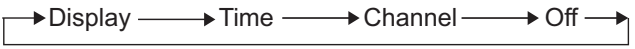
At first, select TV or STB mode to use the display function. See page 61.

Press the DISPLAY button

The screen to the right shows the following information:

- The current channel or AV input (Channel 05)
- The current time (12:20 pm)
- Sleep timer status/minutes remaining (The Sleep Timer is off)
- On/off timer status (Set to turn on everyday at 7:00 PM, off at 10:00 PM)
- Each Press of the DISPLAY button changes the display mode:





Display - Full screen shown above

Time - Shows the current time only

Channel - Shows the current channel

Off - Turns display off

Notes:

- You may also turn off the display at any step by pressing MENU.
- If the clock, sleep timer or on/off timer are not set, the display screen will show: "CLOCK NOT SET", "SLEEP TIMER OFF", and "ON/OFF TIMER OFF" respectively.

External device control buttons

You can use this remote control to operate the basic functions of your external devices. See page 71 on how to program the remote control to operate your other devices.

Note:

- The remote is preset to control JVC-brand devices.

Remote Programming

Remote programming

You can program your remote control to operate your external devices, using the instructions and codes on pages 71 - 76. The following external devices can be operated using your remote control.

Device	Mode	Applied for these functions	Page
Cable Set Top Box Cable/PVR Combination Satellite Set Top Box DBS/PVR Combination	STB	Power on/off, Channel up/down, Volume up/down, Number 0 - 9, Tune, Return+/ TV, Muting, Favorite Channel, Menu on/off, Arrow buttons, OK/Enter, Back, DVR (JVC Only)*, Guide (EPG), Sub Channel, Closed Caption, Display (Recall), Rewind (◄◄), Playback (►), Forward (►►), Record (●), Stop (■), Pause (❚❚).	72
VCR, DBS/PVR Combination PVR, DVD/PVR Combination	VCR	Power on/off, Channel up/down, Menu on/off, Arrow buttons, OK/Enter, Back, Guide (EPG), TV/VCR, Closed Caption, Eject (⏏), Rewind (◄◄), Playback (►), Forward (►►), Record (●), Stop (■), Pause (❚❚).	73, 74
DVD Player, DVD Recorder Home Theaer in Box	DVD	Power on/off, Channel up/down, Menu on/off, Arrow buttons, OK/Enter, Back, Guide (EPG), TV/DVD (TV/VCR button), Sub Title (Sub T.), Open/Close (⏏), Rewind (◄◄), Playback (►), Forward (►►), Record (●), Stop (■), Still (❚❚).	75
Amplifier, Home Theater in Box, Receiver	AUDIO	Power on/off, Audio Input Selection (V1 button), Volume up/down, Muting, DVD operation buttons: Menu on/off, Arrow buttons, OK/Enter, Back, Sub Title (Sub T.), Open/Close (⏏), Rewind (◄◄), Playback (►), Forward (►►), Stop (■), Still (❚❚).	76

*** DVR button only applies to JVC DVR (Dish Satellite STB).**

Notes:

- To record to your VCR or DVD, hold the record (●) button on the remote control and press play (►).
- If the code you programmed doesn't work, try the next one. If no codes work, refer to "Search Code Function" on page 71. If your remote does not work after using the "Search Code Function", use the remote that came with your device. Your TV remote can not be guaranteed to work with all models, brands or operations.
- When the television remote control does not operate, for a model that allows you to switch the remote control code on the device side, you can try switching the setting to default or something else on the device side

How to set the codes

1) Find your device and device's brand from the code list. See page 72 - 76.
2) Select the mode of your device by pressing the MODE button. Then confirm the mode LED on the remote control.
3) Press and hold the TUNE button, then enter the first four digit code number listed using the number buttons. When the code is set, the mode LED goes out for a second, then it lights.
4) After confirming the proper mode LED, release the TUNE button, and confirm the operation of your device.
5) If your device does not respond, try and enter the next code.

Search Code Function

1) Select a mode of your device by pressing the MODE button.
2) Press the POWER and RETURN+/TV buttons. Hold for at least 3 seconds and release. Then confirm the mode LED blinks.
3) Press any button* on the remote, and see if the selected device responds. *Use the applied buttons except for ◄ ► cursors, Return+/TV and Rec (●) on the above chart.
4) If there was a response, press RETURN+/TV. The codes are now set. Then confirm the mode LED goes out.
5) If there was no response, try to select the previous code or the next code by using ◄ or ► . If you repeat a total of 65 times for the STB (90 times for the VCR, 120 times for the DVD and 132 times for the AUDIO) without a response, use the remote control that came with your equipment. Press RETURN+/TV to exit. Then confirm the mode LED goes out.

Remote Programming

Programming Codes

STB mode

Cable Set Top Box	
ABC	0003, 0008
Americast	0899
Bell South	0899
Digeo	1187
Director	0476
General Instrument	0476, 0810, 0276, 0003
GoldStar	0144
Hamlin	0009, 0273
Jerrold	0476, 0810, 0276, 0003
Memorex	0000
Motorola	1376, 0476, 0810, 0276, 1187
Pace	1877, 0237, 0008
Panasonic	0000, 0008, 0107
Paragon	0000
Philips	1305, 0317, 0025
Pioneer	1877, 0877, 0144, 0533
Pulsar	0000
Quasar	0000
Regal	0279, 0273
Runco	0000
Samsung	0000, 0144
Scientific Atlanta	1877, 0877, 0477, 0008
Sony	1006
Starcom	0003
Supercable	0276
Torx	0003
Toshiba	0000
Zenith	0000, 0525, 0899

Cable/PVR Combination	
Americast	0899
Digeo	1187
General Instrument	0810
Jerrold	0810
Motorola	1376, 0810, 1187
Pace	1877, 0237
Pioneer	1877, 0877
Scientific Atlanta	1877, 0877
Sony	1006
Supercable	0276
Zenith	0899

Satellite Set Top Box	
AlphaStar	0772
Chaparral	0216
Coolsat	1806
Crossdigital	1109
DirecTV	1377, 0392, 0566, 0639, 1639, 1142, 0247, 0749, 1749, 0724, 0819, 1856, 1076, 1108, 0099, 1109, 1414, 1442, 1609, 1392, 1640
Dish Network System	1505, 1005, 0775, 1170, 1775
Dishpro	1505, 1005, 0775, 1775
Echostar	1505, 1005, 0775, 1170, 1775
Expressvu	0775, 1775
GE	0566
General Instrument	0869
GOI	0775, 1775
Hisense	1535
Hitachi	0819
HTS	0775, 1775
Hughes Network Systems	1142, 0749, 1749, 1442
Humax	1790
iLo	1535
JVC	0775, 1170, 1775
LG	1414
Magnavox	0724, 0722
Memorex	0724
Mitsubishi	0749
Motorola	0869
Next Level	0869
Panasonic	0247, 0701
Pansat	1807
Paysat	0724
Philips	1142, 0749, 1749, 0724, 1076, 0722, 0099, 1442
Proscan	0392, 0566
Proton	1535
RadioShack	0869
RCA	0566, 0855, 0143, 1392

Satellite Set Top Box	
Samsung	1377, 1276, 1108, 1109, 1442, 1609
SKY	0856
Sony	0639, 1639, 1640
Star Choice	0869
Tivo	1142, 1442
Toshiba	0749, 1749, 0790, 1285
UltimateTV	1392, 1640
Ultrasat	1806
Uniden	0724, 0722
US Digital	1535
USDTV	1535
Voom	0869
Zenith	0856, 1856

DBS/PVR Combination	
DirecTV	1377, 0392, 0639, 1142, 1076, 0099, 1392, 1442, 1640
Dish Network System	1505, 0775
Dishpro	1505, 0775
Echostar	1505, 0775, 1170
Expressvu	0775
Hughes Network Systems	1142, 1442
JVC	1170
Motorola	0869
Philips	1142, 0099, 1442
Proscan	0392
RCA	1392
Samsung	1442
Sony	0639, 1640
Star Choice	0869

VCR mode

VCR		VCR		VCR	
ABS	1972	Fisher	0047, 0104, 0046	Marta	0037
Admiral	0048, 0209	Fuji	0035, 0033	Matsushita	0035, 0162, 0227, 1162
Adventura	0000	Funai	0000, 0593, 1593		
Aiko	0278	Garrard	0000	Media Center PC	1972
Aiwa	0037, 0000, 0307, 0479	Gateway	1972	MEI	0035
Akai	0041, 0061, 0106	GE	0060, 0035, 0240, 0202, 0760, 0761, 0807, 1035, 1060	Memorex	0035, 0162, 0037, 0048, 0039, 0047, 0240, 0000, 0104, 0209, 0046, 0307, 0479, 1037, 1048, 1162, 1237, 1262
Alienware	1972				
America Action	0278	Go Video	0432, 0526		
American High	0035	GoldStar	0037, 0209, 0038, 0225, 1237		
Asha	0240				
Audiovox	0037, 0278	Gradiente	0000	MGA	0240, 0043, 0061
Beaumark	0240	Harley Davidson	0000	MGN Technology	0240
Bell & Howell	0104	Harman/Kardon	0081, 0038	Microsoft	1972
Broksonic	0184, 0121, 0209, 0002, 0479, 1479	Harwood	0072	Mind	1972
		Headquarter	0046	Minolta	0042, 0105
Calix	0037	Hewlett Packard	1972	Mitsubishi	0081, 0067, 0043, 0041, 0061, 0173, 0807
Canon	0035	HI-Q	0047		
Capehart	0020	Hitachi	0037, 0240, 0000, 0042, 0041, 0105, 1037		
Carver	0081			Motorola	0035, 0048
CCE	0072, 0278			MTC	0240, 0000
Citizen	0037, 0278, 1278	Howard Computers	1972	Multitech	0000, 0072
Colt	0072	HP	1972	NEC	0035, 0037, 0048, 0104, 0067, 0041, 0038, 0008
Craig	0037, 0047, 0240, 0072, 0271	Hughes Network Systems	0042, 0739		
		Humax	0739		
Curtis Mathes	0060, 0035, 0162, 0041, 0760, 1035	Hush	1972	Nikko	0037
		iBUYPOWER	1972	Niveus Media	1972
Cybernex	0240	Jensen	0041	Noblex	0240
CyberPower	1972	JVC	0045, 0067, 0041, 0008, 0366, 1707, 1945, 1774, 1775, 1776, 1777	Northgate	1972
Daewoo	0045, 0104, 0278, 0020, 0046, 0561, 1278			Olympus	0035
				Optimus	1062, 0162, 0037, 0048, 0104, 0432, 0593, 1048, 1162, 1262
Daytron	0020	KEC	0037, 0278		
Dell	1972	Kenwood	0067, 0041, 0038		
Denon	0042	KLH	0072	Orion	0184, 0121, 0209, 0002, 0208, 0479, 1479
DirecTV	0739	Kodak	0035, 0037		
Durabrand	0039, 0038	LG	0037, 0045, 0042, 0209, 0038, 1037		
Dynatech	0000			Panasonic	1062, 0035, 0162, 0225, 0227, 0616, 1035, 1162, 1262
Electrohome	0037	Linksys	1972		
Electrophonic	0037	Lloyd's	0000, 0208		
Emerex	0032	Logik	0240, 0072	Penney	0035, 0037, 0240, 0042, 0038, 1035, 1237
Emerson	0035, 0037, 0184, 0240, 0045, 0000, 0121, 0043, 0209, 0002, 0278, 1593, 1479, 1278, 0593, 0561, 0479, 0208, 0061	LXI	0037		
		Magnasonic	0593, 1278	Pentax	0042, 0105
		Magnavox	0035, 0039, 0081, 0000, 0149, 0563, 0593, 1593, 1781	Philco	0035, 0000, 0038
		Magnin	0240		
		Marantz	0035, 0081		

Remote Programming

VCR mode

VCR	
Philips	0035, 0081, 0000, 0563, 0593, 0618, 0739, 1081, 1181, 1266
Pilot	0037
Pioneer	0081, 0042, 0067
Polk Audio	0081
Portland	0020
Presidian	1593
Profitronic	0240
Proscan	0060, 0202, 0760, 0761, 1060
Protec	0072
Pulsar	0039
Quarter	0046
Quartz	0046
Quasar	0035, 0162, 1035, 1162
RadioShack	0000, 1037
Radix	0037
Randex	0037
RCA	0060, 0035, 0240, 0000, 0042, 0149, 0105, 0106, 0202, 0760, 0761, 0807, 0880, 1035, 1060
Realistic	0035, 0037, 0048, 0047, 0000, 0104, 0046
ReplayTV	0614, 0616
Ricavision	1972
Runco	0039
Samsung	0240, 0045, 0432, 0739, 0760, 1014
Sanky	0048, 0039
Sansui	0000, 0067, 0209, 0041, 0271, 0479, 1479
Sanyo	0047, 0240, 0104, 0046
Scott	0184, 0045, 0121, 0043
Sears	0035, 0037, 0047, 0000, 0042, 0104, 0046, 0057, 0105, 1237
Sharp	0048, 0209, 0807, 0848, 1048
Shintom	0104, 0072
Shogun	0240
Singer	0045, 0072
Sonic Blue	0614, 0616
Sony	0035, 0032, 0033, 0000, 0034, 0636, 0639, 0640, 1032, 1232, 1972
Stack 9	1972
STS	0042
Sylvania	0035, 0081, 0000, 0043, 0593, 1593, 1781

VCR	
Symphonic	0000, 0593, 1593
Systemax	1972
Tagar Systems	1972
Tatung	0081, 0045, 0000, 0067, 0041, 0008, 0366
Teac	0000, 0041
Technics	0035, 0162
Teknika	0035, 0037, 0000
Thomas	0000
Tivo	0618, 0636, 0739, 1996
TMK	0240, 0208
Toshiba	0081, 0045, 0042, 0067, 0043, 0041, 0008, 0057, 0366, 0845, 1008, 1145, 1972, 1996
Totevision	0037, 0240
Touch	1972
Unitech	0240
Vector	0045
Vector Research	0038
Video Concepts	0045, 0061
Videomagic	0037
Videosonic	0240
Viewsonic	1972
Villain	0000
Voodoo	1972
Wards	0060, 0035, 0048, 0047, 0081, 0240, 0000, 0042, 0072, 0149, 0760
White Westinghouse	0209, 0072
XR-1000	0035, 0000, 0072
Yamaha	0041, 0038
Zenith	0039, 0033, 0000, 0209, 0034, 0479, 1139, 1479
ZT Group	1972

DBS/PVR Combination

Echostar	1945
Hughes Network Systems	0739
JVC	1945
Philips	0739
Samsung	0739

PVR

ABS	1972
Alienware	1972
CyberPower	1972
Dell	1972
DirecTV	0739
Dish Network System	1945
Echostar	1945
Gateway	1972
Hewlett Packard	1972

PVR	
Howard Computers	1972
HP	1972
Hughes Network Systems	0739
Humax	0739
Hush	1972
iBUYPOWER	1972
JVC	1945
Linksys	1972
Media Center PC	1972
Microsoft	1972
Mind	1972
Niveus Media	1972
Northgate	1972
Panasonic	0616, 1777
Philips	0618, 0739
RCA	0880
ReplayTV	0614, 0616
Samsung	0739
Sonic Blue	0614, 0616
Sony	0636, 1972
Stack 9	1972
Systemax	1972
Tagar Systems	1972
Tivo	0618, 0636, 0739
Toshiba	1008, 1972, 1996
Touch	1972
Viewsonic	1972
Voodoo	1972
ZT Group	1972

DVD/PVR Combination

Emerson	0000

Remote Programming

DVD mode

DVD	
Accurian	1416
Advent	1016
Aiwa	0641
Akai	0695, 0770, 0899
Alco	0790
Allegro	0869
Apex Digital	0672, 0717, 0755, 0830, 1056, 1061
Arrgo	1023
Aspire Digital	1168
Audiovox	0790
Blaupunkt	0717
Blue Parade	0571
Broksonic	0695
Cinea	0831
Cine Vision	0876, 0833, 0869
Citizen	1277
Coby	0778, 1107
Craig	0831
Curtis Mathes	1087
CyberHome	0816, 0874, 1023, 1024, 1117, 1129
Daewoo	0784, 0705, 0770, 0833, 0869, 1169, 1172
Denon	0490, 0634
Disney	0675, 1270
Durabrand	1127
DVD2000	0521
Emerson	0591, 0675, 0821, 1268
Enterprise	0591
ESA	0821, 1268
Fisher	0670
Funai	0675, 1268, 1334
Gateway	1158
GE	0522, 0815, 0717
Go Video	0744, 0715, 0741, 0783, 0833, 0869, 1044, 1075, 1099, 1158, 1304, 1730
GoldStar	0741
Greenhill	0717
Harman/Kardon	0582, 0702
Hitachi	0573, 0664, 1247
Hiteker	0672
Humax	1500, 1588
iLo	1348
Initial	0717
Insignia	1268
Integra	0627
JBL	0702
Jensen	1016
JVC	0558, 0623, 0867, 1164, 1602, 1770, 1771, 1772, 1773
Kawasaki	0790
Kenwood	0490, 0534
KLH	0717, 0790, 1149
Koss	0651
Lasonic	0798
Lenoxx	1127
LG	0591, 0741, 0869
LiteOn	1058, 1158, 1416, 1440

DVD	
Magnavox	0503, 0539, 0646, 0675, 0821, 1268
Marantz	0539
Memorex	0695, 0831, 1270
Microsoft	0522, 1708
Mintek	0839, 0717
Mitsubishi	1521, 0521
NAD	0741
NEC	0785
Nesa	0717
NexxTech	1402
Norcent	1003, 1107
Onkyo	0503, 0627
Oritron	0651
Panasonic	0490, 0703, 1362, 1462, 1490, 1762
Philips	0503, 0539, 0646, 0675, 0854, 1158, 1260, 1267, 1354
Pioneer	0525, 0571, 0631
Polaroid	1061
Polk Audio	0539
Portland	0770
Presidian	0675
Prima	1016
Proscan	0522
Pro Vision	0778
Qwestar	0651
RCA	0522, 0571, 0717, 0790, 0822, 1022, 1132
Rio	0869
Rotel	0623
Sampo	0752
Samsung	0490, 0573, 0744, 0820, 0899, 1044, 1075, 1470
Sansui	0695
Sanyo	0670, 0695, 0873
Sensory Science	1158
Sharp	0630, 0675, 0752, 1256
Sharper Image	1117
Sherwood	0770
Shinsonic	0533, 0839
Sonic Blue	0869, 1099
Sony	0533, 1533, 0864, 1033, 1431, 1536
Superscan	0821
Sylvania	0675, 0821, 1268
Symphonic	0675, 0821
Teac	0717, 0790
Technics	0490, 0703
Theta Digital	0571
Tivo	1503
Toshiba	0503, 0695, 1045, 1154, 1503, 1515, 1588
Urban Concepts	0503
US Logic	0839
Venturer	0790
Xbox	0522, 1708
Yamaha	0490, 0539, 0545
Zenith	0503, 0591, 0741, 0869

DVD Recorder	
Accurian	1416
Apex Digital	1056
Aspire Digital	1168
CyberHome	1129
Denon	0490
Funai	0675, 1334
Gateway	1158
Go Video	0741, 1158, 1304, 1730
iLo	1348
JVC	1164
LG	0741
LiteOn	1158, 1416, 1440
Magnavox	0646, 0675
Panasonic	0490
Philips	0646, 1158
Pioneer	0631
RCA	0522
Samsung	0490, 1470
Sensory Science	1158
Sharp	0630, 0675
Sony	1033, 1431
Sylvania	0675
Zenith	0741

Home Theater in Box	
Aiwa	0641
Audiovox	0790
JVC	1770, 1771, 1772, 1773
KLH	0790
Koss	0651
Oritron	0651
Polk Audio	0539
RCA	0790
Rio	0869
Sonic Blue	0869
Teac	0790
Venturer	0790

Remote Programming

Audio mode

Amplifier	
Amstrad	0078
Bose	0674
Curtis Mathes	0300
Durabrand	1561
GE	0078
Harman/Kardon	0892
JVC	0331
Left Coast	0892
Lenoxx	1561
Linn	0269, 0282, 0829
Marantz	0892, 0269
NEC	0264
Optimus	0300, 0823
Philips	0892, 0269
Pioneer	0013, 0300, 0823
Polk Audio	0892, 0269
RCA	0300, 0823
Shure	0264
Sony	0689, 0815, 1126
Soundesign	0078
Victor	0331
Wards	0078, 0013
Yamaha	0354, 0133

Receiver	
ADC	0531
Aiwa	1405, 0121, 1243, 1388, 1641
Akai	1512
Alco	1390
Amphion Media Works	1563, 1615
AMW	1563, 1615
Anam	1609, 1074
Apex Digital	1257, 1430
Audiotronic	1189
Audiovox	1390
Bose	1229, 0639, 1841, 1933
Brix	1602
Cambridge Soundworks	1370
Capetronic	0531
Carver	1189
Classic	1352
Coby	1389
Criterion	1420
Daewoo	1250
Delphi	1414
Denon	1360, 0771, 1142, 1660, 2832
Garrard	0463
Gateway	1517
Go Video	1532
Harman/Kardon	0110, 0891, 1304, 1306
Initial	1426
Insignia	1751
Integra	0135, 1298, 1320
JBL	0110, 1306
JVC	0531, 1374, 1495, 1560, 1676, 1871, 1894
Kenwood	1313, 1570, 1569
KLH	1390, 1412

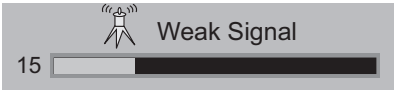
Receiver	
Koss	1366, 1497
Lasonic	1798
Lenoxx	1437
LG	1293, 1869
Liquid Video	1497
Magnavox	1189, 1269, 0531, 1514
Marantz	1189, 1269, 0891, 1289
Mitsubishi	1393
NexxTech	1751
Norcent	1389, 1751
Nova	1389
Onkyo	0135, 0842, 1298, 1320, 1531
Optimus	1023, 0531, 1074
Oritron	1366, 1497
Panasonic	1308, 1518, 0367, 1288, 1316, 1548, 1633, 1763, 1764
Philips	1189, 1269, 0891, 1266, 1289, 1673
Pioneer	1023, 0014, 0150, 0531, 0630, 1123, 1384, 1823
Polaroid	1508
Polk Audio	1289, 1414
Proscan	1254
RCA	1023, 1609, 1254, 0531, 1074, 1123, 1390, 1511
Regent	1437
Rio	1869
Saba	0531, 1519
Samsung	1295, 1500
Sansui	1764
Sanyo	1251, 1469
Sharp	0771, 1286
Sharper Image	1556
Sherwood	1517, 1653
Shinsonic	1426
Sirius	1602
Sonic Blue	1532, 1869
Sony	1058, 1441, 1258, 1759, 1622, 0474, 1406, 1558, 1658, 1758, 1858, 1958
Stereophonics	1023
Sunfire	1313
Teac	0463, 1074, 1390, 1528
Technics	1308, 1518, 1384
Thorens	1189
Toshiba	1788
Venturer	1390
Wards	0014
XM	1406, 1414
Yamaha	0176, 1176, 1276, 1331, 1375, 1476
Zenith	0857, 1293

Home Theater in Box	
Aiwa	1388, 1641
Amphion Media Works	1563, 1615
AMW	1563, 1615
Anam	1609
Apex Digital	1257, 1430
Audiovox	1390
Bose	1229, 1933
Cambridge Soundworks	1370
Classic	1352
Coby	1389
Criterion	1420
Daewoo	1250
Denon	2832
Durabrand	1561
Gateway	1517
Go Video	1532
Initial	1426
Insignia	1751
Integra	1298
JBL	1306
JVC	1374, 1495, 1676, 1871
KLH	1390, 1412
Koss	1366, 1497
Lasonic	1798
Lenoxx	1561
LG	1293, 1869
Liquid Video	1497
Magnavox	1514
NexxTech	1751
Norcent	1389, 1751
Nova	1389
Onkyo	1298, 1531
Oritron	1366, 1497
Panasonic	1288, 1316, 1548, 1633, 1763, 1764
Philips	1266, 1673
Pioneer	1384
Polaroid	1508
Polk Audio	1289
RCA	1609, 1390, 1511
Regent	1437
Rio	1869
Saba	1519
Samsung	1295, 1500
Sanyo	1469
Sharper Image	1556
Sherwood	1517
Shinsonic	1426
Sonic Blue	1532, 1869
Sony	0689, 1622, 1558, 1658, 1758, 1858, 1958
Teac	1390, 1528
Toshiba	1788
Venturer	1390
Yamaha	1331, 1375
Zenith	1293

OSD Information

Weak Signal

This OSD warning appears when the digital channel that you have selected is too weak to receive or no signal is being detected for that channel.



No Program

If the external input terminal you selected, or were watching is not receiving a signal, "NO PROGRAM" appears on the television screen. It appears when that external input terminal is not receiving a signal and you have the Noise Muting function OFF and you have a single screen. It moves automatically every two seconds to prevent the screen from burn-in.

Note:

- Even if "NO PROGRAM" appears on the screen, your timer functions and auto shut off functions that you set, are still active.

Invalid Signal

If you are inputting a PC signal that is invalid, "Invalid Signal" will appear on the TV screen. It appears when the input is PC and it is a single screen.

Lamp Replacement

Lamp Message

LAMP NEEDS TO BE REPLACED.
REFER TO OWNER'S MANUAL FOR REPLACEMENT INSTRUCTIONS.

AFTER REPLACING THE LAMP, PLEASE RESET TIMER IN THE TV MENU.

PRESS OK, IF YOU DO NOT WANT TO SEE THIS MESSAGE AGAIN.

If this message appears when you turn the TV on, you need to replace the lamp. See page 79 on how to replace the lamp.

Note:

- This message will appear every time you turn on the TV when the lamp needs to be replaced. Press the OK button to make the message disappear, or replace the lamp.

Lamp Warning

It is very important that you NEVER TOUCH THE NEW LAMP'S GLASS. Dirt or oil from your fingers may cause the lamp to break.

Replace the lamp with part number PK-CL120U only! The television is designed to work specifically with this lamp. Using a different lamp, or a third-party manufacturer's lamp could cause a malfunction and or damage to the television.

This television uses a 120-Watt high-pressure mercury lamp to project images onto the television screen. When the lamp nears the end of its operating life, you may notice the picture becoming dark. When the picture begins to darken, or the lamp burns out, it is time to replace the lamp. The following instructions will tell you how to safely replace the lamp.

Under operating conditions, THE LAMP WILL GET EXTREMELY HOT AND WILL CAUSE SEVERE BURNS IF TOUCHED.

Before attempting to replace the lamp, make sure the television has completely run through its cooling cycle. Turn the power off and wait until the LAMP LED blinks very slowly and turns off completely. Unplug the TV. If you feel any warmth as you place your hand near the lamp, DO NOT TOUCH IT. Wait until the lamp has completely cooled before attempting to replace it. After turning the power off, wait at least 1 hour or more.

NEVER replace the lamp while the TV is plugged into the wall outlet. Touching the metallic portion of the lamp may cause an electrical shock.

Do not keep the TV on for more than 24 hours consecutively. There is the possibility of the life of the lamp being shortened.

The life of the lamp changes depending on the atmospheric temperature and altitude in which the TV is being used.

Please read these instructions fully before attempting to replace the lamp. If you feel unsure about replacing the lamp yourself, call a service technician.

Lamp Replacement

Replacement Lamp Kit

Before replacing the lamp, you will need to purchase a replacement kit, part number PK-CL120U. To purchase this kit, consult your dealer or call 1-800-252-5722, or go to www.jvc.com.

Because the lamp contains mercury, it cannot be disposed of with normal trash.

How to Replace the Lamp

Please read these instructions fully before attempting to replace the lamp. If you feel unsure about replacing the lamp yourself, call a service technician. Please observe all safety warnings.

DO NOT attempt to remove the assembly until the lamp has fully cooled. If you feel any heat near the lamp, STOP and wait until the lamp has FULLY COOLED.

NEVER attempt to remove the lamp with the television plugged into an outlet.

DO NOT DROP the used lamp. The inside of the lamp is under pressure. Dropping or other hard shock could cause the lamp to shatter.

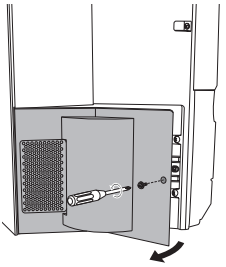
ALWAYS recycle the used lamp. Because the lamp contains mercury, it cannot be thrown away with regular trash. Follow the recycling instructions included with the Lamp Replacement Kit.

1) Turn off the television.
Press the POWER button to turn off the television. Wait until the picture has closed and the LAMP LED on the front panel has stopped blinking indicating the lamp cool down is complete.

Warning: The cool-down process cools the lamp from its operating temperature. This does not mean that the lamp will now be cool enough to handle safely. We strongly recommend you wait at least one hour before proceeding.

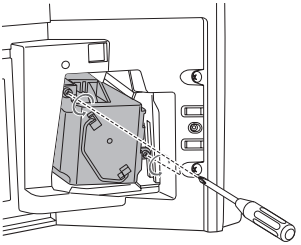
2) Unplug the television.
Disconnect the power cord from the AC outlet. Make sure that the LAMP LED light has stopped blinking before you unplug the set. Never attempt to replace the lamp with the television plugged in.

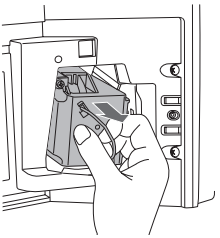
3) Remove the lamp cover.
The lamp is located behind the lamp cover below the left side of the television. To access the lamp you will need to remove the lamp cover. First, remove the screw located on the lamp cover using a Phillips head type screwdriver (cross-head type). Once the screw has been removed, gently pull it towards you and the panel will come away from the television. Set it aside.



Lamp Replacement

4) Remove the lamp unit.
Using a Phillips head type screwdriver (cross-head type), loosen the two screws fastening the lamp unit. When the screws have been loosened, remove the lamp by raising the handle and gently sliding the unit towards you. Place it carefully in the recycling packaging.





5) Install the new lamp unit.
Holding the handle attached to the new lamp unit, slide and push the new lamp into the television and back into the lamp housing area. **Do not forget to re-tighten the two screws.**

Note: If the lamp does not sit securely in the TV (in the lamp housing area), it won't turn on. Make sure the lamp sits securely in the housing area.

WARNING!

Remember it is very important that YOU DO NOT TOUCH THE LAMP SURFACE. Please read the warnings on page 78 again.

Also, replace the lamp with part number PK-CL120U only! The television is designed to work specifically with this lamp. Lamps other than PK-CL120U may cause malfunctions and/or other damage to the television.

NOTICE (for USA)

This product has a High Intensity Discharge (HID) lamp that contains mercury. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information, please contact your local authorities or for USA, the Electronic Industries Alliance: http://www.eiae.org

To purchase a replacement lamp kit, please call 1-800-252-5722.

6) Re-install the lamp cover.
Insert the lamp cover in the right concave and close the lamp cover. Because the lamp cover has a role to help prevent the danger of an electrical shock, tighten the screw using a Phillips head type screwdriver (cross-head type).

Notes:

- Make sure the lamp door is closed completely, or the power will not turn on.
- After installing the new lamp unit, do not forget to reset the lamp timer. See page 59.

Lamp Replacement

Warning LED Messages

While the power is on, and there is a problem with the TV, the TV changes to warning mode and informs you of the problem using the LED as follows. Then, the power turns off automatically and performs the cooling for approximately 40 seconds.

The LAMP LED blinks

Condition: It may be a malfunction of the internal electrical circuits.

To correct: Keep the TV off for a while and then turn the power on again. If the TV goes into warning mode, unplug the TV after the cooling has completed and consult your dealer.

The POWER LED and LAMP LED blink alternately

Condition: The inside temperature rises abnormally or the fan may be blocked.

To correct: Keep the TV off for a while and then turn the power on again. If the TV goes into warning mode, unplug the TV after the cool down as completed and consult your dealer.

The POWER LED and LAMP LED blink rapidly simultaneously

Condition: The lamp unit has been installed on a slant, or it is not fully inserted into the lamp housing. Or it may be a lamp malfunction.

To correct:

- If this condition occurs soon after replacing the lamp: Reinstall the new lamp unit. Repeat the lamp installation steps, taking care to observe all warnings. Make sure the lamp sits securely inside the unit when you reinstall it.
- If this condition occurs except for replacing the lamp: Keep the TV off for a while and then turn the power on again. If the TV goes into warning mode, unplug the TV after the cool down as completed and consult your dealer.

Troubleshooting

PROBLEMS	CHECK
There is no power	• See if the power cord became unplugged. • Check for a blown fuse or circuit breaker or a power outage. • It is possible the fan is stuck or the inside temperature is rising abnormally. Consult your dealer.
The POWER LED and LAMP LED are blinking alternately.	• It may be a malfunction that the fan is locked or the temperature has increased.
The POWER LED and LAMP LED are blinking rapidly simultaneously.	• The lamp may not have been installed correctly, or it may be due to a malfunction. • The lamp door may not be closed correctly.
There is no picture or sound	• The antenna could be disconnected. • The input mode could be set improperly. See page 61. • The tuner (Auto Tuner Setup) could be set improperly. See page 31. • The TV station may be having difficulties. Check to see if other stations are working. • Use the HDMI cable with HDMI logo HDMI. See page 21. • You can not output audio using the AUDIO OUTPUT under the following conditions: 1) When you have digital sound from an HDMI device connected to the INPUT-1 or INPUT-2 connection on the side of your TV. (See page 21). 2) When you have analog sound from a DVI device connected to the AUDIO IN "INPUT-1" connection. (See page 20).
Remote control is not operating properly or at all	• Check to see that the batteries are still working and properly installed. • Make sure the remote has a clear sight path to the TV. • You may be too far from the TV. You must be within 23 feet (7 meters). • Make sure your remote is set to the proper mode. See page 61.
You cannot select a certain channel	• Make sure the channels have been programmed. See "Channel Summary", page 32. • Check to see if the channel is locked. See "Channel Summary - Lock" page 33.
The power turns off by itself	• Make sure the set did not become unplugged. • Perhaps the On/Off Timer is set. See page 58. • Check to see if the Sleep Timer was set. See page 68.
It does not operate correctly	• This television is operated by a microprocessor. It is possible that external noise or interference is causing the problem. If the television does not function correctly, remove the electrical plug from the wall outlet and wait a while before inserting it into the wall outlet again and operating the television.
The clock is wrong	• The power was interrupted and the clock was not reset. See page 57.
The color quality is poor	• Tint and Color may be improperly adjusted. See page 52. • The Video Status mode may be turned to the wrong setting. See page 67.
There are lines across the picture	• There could be interference from another electrical appliance, such as a computer, another TV or VCR. Move any such appliances further away from the TV.
The picture is spotted	• There could be interference from a high-wattage appliance, like a hairdryer or vacuum, operating nearby. Move the antenna away from the appliance or change to a coaxial cable connection which is less prone to interference.
There are double pictures (ghosts)	• A building or passing airplane can reflect the original signal and produce a second, slightly delayed one. Adjust your antenna position.
Picture is snowy (image noise)	• Your antenna may be damaged, disconnected or turned. Check the antenna connection. If the antenna is damaged, replace it.
Screen is 80% black	• The Closed Caption Text mode is on. Turn it off in the Closed Caption Menu, page 67.
Stereo or bilingual programs can't be heard	• Make sure the MTS settings are correct. See page 68.
The LAMP LED continues blinking	• It may be a malfunction of the internal electrical circuits.

PROBLEMS	CHECK
Static electricity	• It is normal to feel static electricity if you brush or touch the screen.
You hear occasional crackling sounds	• It is normal for the TV to make crackling sounds when first turned on or off. Unless the sound or picture become abnormal, this is fine.

The following are not malfunctions.

- The television may make a creaking sound if the temperature of the room or the temperature inside the television changes. If there is no problem with the screen or sound, then there is no need to worry.
- The lamp may make a noise when it blows, but this is not dangerous.
- The lamp may make a noise when the power is turned on and a picture is displayed on the screen. This noise is caused when the mercury inside the lamp is heated, and is not a malfunction.
- The still parts of a picture may remain on the screen. This is a characteristic of HD-ILA elements and not a malfunction. The picture will disappear over time.
- The operation of this television is not guaranteed below 0ºC. If the power is turned on while the temperature is below 0ºC, the picture may be disturbed. Use the television when the temperature is 0ºC or higher.
- Although the HD-ILA element is manufactured with high-precision technology, please understand that some pixels may be lost or permanently displayed.
- There is a cooling fan built-in to the television. Please understand that this fan will make some noise when the television is on and while cooling.
- Although the picture may be temporarily disturbed and noise may be seen on the screen if the power is turned on immediately after it has been turned off. This is not a malfunction.

Specifications

Model	HD-58S998	HD-65S998
Type	HD-ILA Device Projection	
Reception Format	NTSC, BTSC System (Multi-Channel Sound) ATSC Terrestrial, Digital Cable	
Reception Range	VHF 2 to 13, UHF 14 to 69 at ATSC, CATV 125 Sub, Mid, Super, Hyper and Ultra bands at Digital Cable	
	VHF 2 to 13, UHF 14 to 69 CATV 125 Sub, Mid, Super, Hyper and Ultra bands (181 channel frequency synthesizer system) at Analog • Reception of channel A-5 ("95" of the TV set's on-screen cable channel numbers) is not recommended for your TV set.	
Power Source	AC 120V, 60 Hz	
Power Consumption	219W	
Projection Source	120W High-Pressure Mercury Lamp	
Screen Size	58 inch / 147 cm measured diagonally, 16:9 ratio	65 inch / 165 cm measured diagonally, 16:9 ratio
Speakers	(1 cm x 9.5 cm) x 2, 10 cm round x 1	
Audio Output	Full Range - 10W + 10W + 10W	
Antenna Terminal (VHF/UHF, ATSC/DIGITAL CABLE IN)	75 ohms (VHF/UHF)(F-type connector)	
Input 3, 4, 5 Terminal	S (Input 3) Y: 1 Vp-p positive, 75 ohms (negative sync provided) C: 0.286 Vp-p (burst signal), 75 ohms Video: 1 Vp-p, 75 ohms Audio: 500 mVrms (-4dBs) high impedance	
Input 3, 4 Terminal (component terminal)	1080i / 720p / 480p / 480i Y: 1 Vp-p positive, 75 ohms (negative sync provided) P_B/P_R: 0.7 Vp-p 75 ohms	
Input 1, 2 Terminal (HDMI Input Terminal)	Video: 1080p / 1080i / 720p / 480p / 480i / VGA Audio: 2ch PCM, 32 / 44.1 / 48 KHz 16 / 20 / 24 bit • Personal computer compatibility cannot be guaranteed.	
Audio Output Jacks (FIX)	FIX : 500mVrms (-4dBs) Low impedance (1000 Hz when modulated 100%)	
Optical Output Digital Audio	Digital Out (optical) x 1	
Input 5 Terminal (PC Input Terminal)	Analog RGB D-SUB (15 pin) x 1 • PC signal is available. Refer to page 24 for details on the signals which can be input.	
Dimensions (inch) W X H X D (cm)	51 1/2 x 37 7/8 x 13 5/8 130.5 x 96.1 x 34.6 (With Pedestals)	57 1/2 x 41 9/16 x 14 9/16 145.9 x 105.5 x 36.9 (With Pedestals)
	51 1/2 x 37 7/8 x 10 3/4 130.5 x 96.1 x 27.2 (Without Pedestals)	57 1/2 x 41 9/16 x 11 5/8 145.9 x 105.5 x 29.5 (Without Pedestals)
Weight (lbs / kg)	118.8 / 54 (With Pedestals) 114.7 / 52 (Without Pedestals)	145.2 / 66 (With Pedestals) 140.8 / 64 (Without Pedestals)
Accessories	Illuminated remote control unit x 1 / AA batteries X 2 Front Pedestal x 1 / Rear Pedestal x 1 Philips type screws x 14	

Specifications subject to change without notice.

- The open source software is embedded in this product. For more information, please go to: http://software.jvc.com/opensource/lnx/DP/05_AtscQam/download.html

JVC®

LIMITED WARRANTY

COLOR TV 1-1

For Canadian model televisions, see separate sheets for Canadian Warranty information.

JVC COMPANY OF AMERICA (JVC) warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL RETAIL PURCHASER to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original purchase for the period shown below. ("The Warranty Period")
FOR DIRECT-VIEW COLOR TELEVISION, PICTURE TUBE is covered for Two(2)years.

Parts	Labor
1 YEAR	1 YEAR

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN THE COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If this product is found to be defective within the warranty period, JVC will repair or replace defective parts with new or rebuilt equivalents at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products may be brought to a JVC authorized service center on a carry-in basis. Color televisions with a screen size of 27" or greater qualify for in-home service. In such cases, a technician will come to your home and either repair the TV there or remove and return it if it cannot be repaired in your home.

WHAT YOU MUST DO FOR WARRANTY SERVICE:

Please do not return your product to the retailer

Instead, return your product to the JVC authorized service center nearest you. If shipping the product to the service center, please be sure to package it carefully, preferably in the original packaging, and include a brief description of the problem(s). Please call 1-800-252-5722 to locate the nearest JVC authorized service center. Service locations can also be obtained from our website http://www.jvc.com. If your product qualifies for in-home service, the service representative will require clear access to the product.

If you have any questions concerning your JVC Product, please contact our Customer Care Center at 800-252-5722

WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
2. Initial installation, installation and removal from cabinets or mounting systems.
3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
5. Signal reception problems and failures due to line power surge;
6. Video Pick-up Tubes/CCD Image Sensors are covered for 90 days from the date of purchase;
7. Accessories;
8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase);
9. Products used for commercial purposes, including, but not limited to rental.

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR ANY LOSS OF USE OF THE PRODUCT, INCONVIENCE, OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

JVC COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.
1700 Valley Road
Wayne, NJ 07470
http://www.jvc.com

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAIL OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

For customer use:

Enter below the Model No. and Serial No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. : _____ Serial No. : _____

Purchase date : _____ Name of dealer : _____

TO OUR VALUED CUSTOMER

THANK YOU FOR PURCHASING THIS JVC PRODUCT.

WE WANT TO HELP YOU ACHIEVE A PERFECT EXPERIENCE.

NEED HELP ON HOW TO HOOK UP?
NEED ASSISTANCE ON HOW TO OPERATE?
NEED TO LOCATE A JVC SERVICE CENTER?
LIKE TO PURCHASE ACCESSORIES?

JVC® IS HERE TO HELP!

TOLL FREE: 1(800)252-5722

http://www.jvc.com

Remember to retain your Bill of Sale for Warranty Service.

Do not attempt to service the product yourself

Caution
To prevent electrical shock, do not open the cabinet.
There are no user serviceable parts inside.
Please refer to qualified service personnel for repairs.

BT-51011-8
(0504)

Notes

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